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United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State  
Department of Natural Resources



April 1, 1981

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW SURVEYORS AT MT. ST. HELENS, WASHINGTON.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES:

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.





# **WATER SUPPLY OUTLOOK FOR UTAH**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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# PROSPECTIVE WATER SUPPLIES

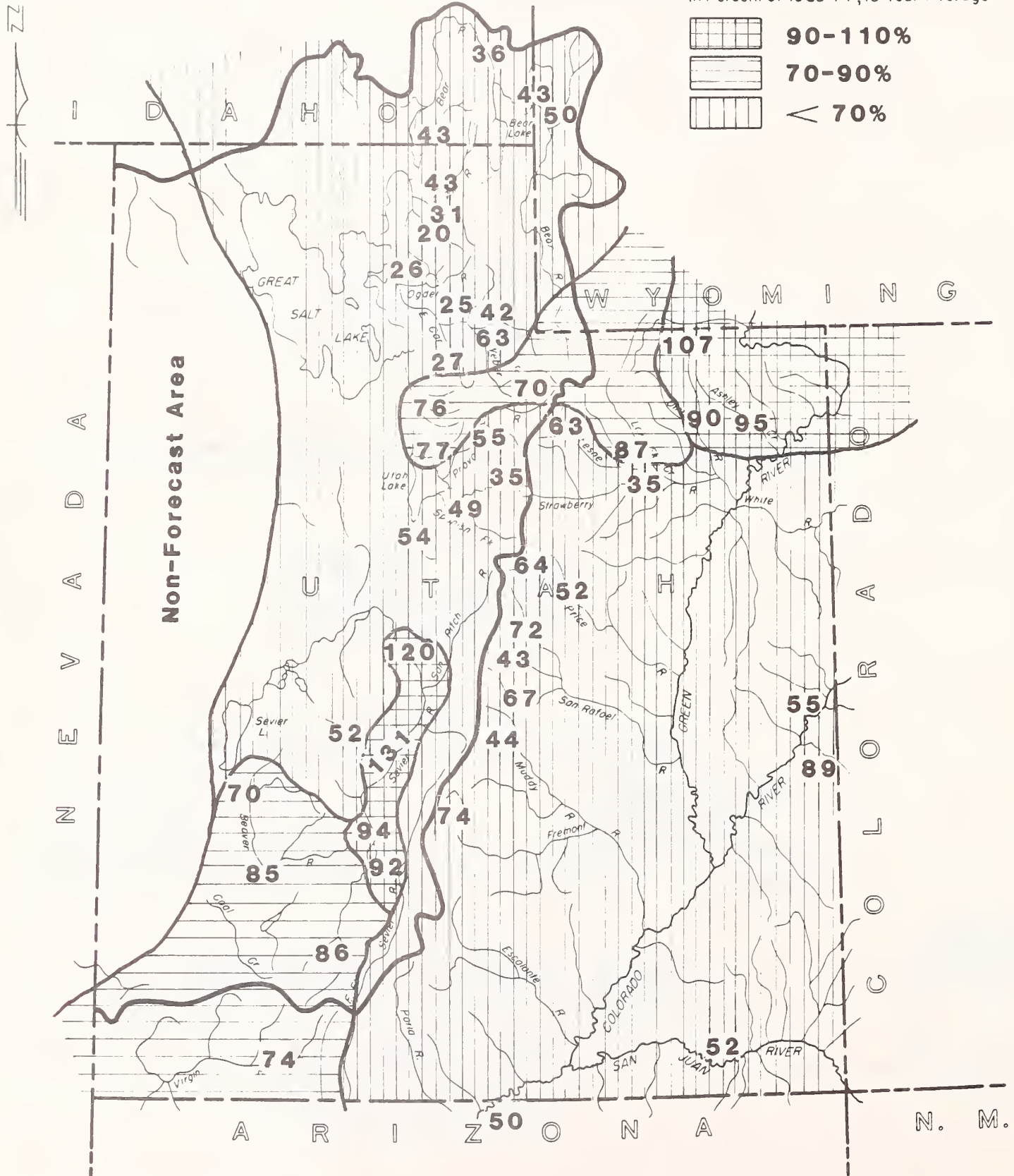
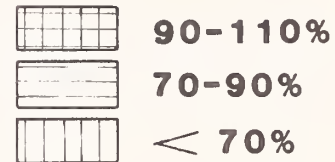
Based on Snow Surveys Made on  
UTAH and BEAR RIVER WATERSHEDS

**April 1, 1981**

Approximate Date



FORECAST STREAM FLOW  
in Percent of 1963-77, 15 Year Average



# WATER SUPPLY OUTLOOK

\* \* \* \* \*  
\* Utah's 1981 Water Supply Outlook ranges from "good" \*  
\* for those with reservoir water to "poor" for some \*  
\* depending on natural streamflow from areas with a well\*  
\* below average snow pack. Snow cover varies from 46 to\*  
\* 108% of average. Reservoir storage is 118% of average\*  
\* statewide and streamflow forecasts now range from 20 \*  
\* to 131% of the April-July average. \*  
\* \* \* \* \*

## SNOW COVER

Snow cover now ranges from 46% of the April 1 average on the Lower Bear River to 109% on the Uintah-Whiterocks Rivers.

Logan River snow cover is 47% of average, Ogden River 50%, Upper Bear 63%, Weber River 64%, Provo River 71% and Strawberry River 77%.

Salt Lake front drainages are 66% of average and Tooele Valley 80%.

Uintah Basin streams are 99% on Lakefork-Yellowstone, 102% on Ashley Creek, and 84% on Blacks Fork. Snow cover on Price River is 53% of average, San Rafael 59%, Muddy 65%, Fremont 74% and the head of the Escalante 105% of the April 1 average.

Sevier River snow cover ranges from 66% on the South Fork to 75% on the East Fork and 70% on the Lower Sevier and San Pitch.

Beaver River is 81%, Coal Creek 66%, and Virgin River 62% of average snow cover.

The Blue Mountains are 69% and the LaSal Mountains are 108% of the April 1 average.

## PRECIPITATION

Precipitation at mountain stations ranged from 60 to 100% of average on the Lower Bear during March to 150 to 300% on the Uintahs and the rest of the state. The October-March totals now range from 40 to 70% of average on the Lower Bear to 60 to 116% in Uintah Basin. The rest of the state is mostly 50 to 90% of the 15 year average for the October-March period.

## SOIL MOISTURE

Soil moisture under the snow pack is still drier than normal due to below average moisture prior to snow accumulation.



# WATER SUPPLY OUTLOOK (continued)

## RESERVOIR STORAGE

Reservoir storage in 26 of Utah's key irrigation reservoirs is now 118% of the 15 year average and 85% of capacity. All reservoirs are expected to fill except Pineview and Strawberry where very low inflow is forecast.

## STREAMFLOW FORECASTS

Streamflow forecasts for the April-July period range from 14% of average on the Woodruff Creek to 131% on the Sevier for the inflow Sigurd to Gunnison.

Bear River is forecast 82% at Utah-Wyoming State Line, 58% at Woodruff, 41% at Randolph, and 36% at Harer, Idaho. Smiths Fork is forecast 50%, Thomas Fork 43%, Big Creek 16% and Woodruff Creek 14% of average, Cub River 43%, Logan River 43%, Blacksmith Fork 31% and Little Bear 20% of average.

Ogden River is forecast 21% for the South Fork and 26% for Pinview inflow. Weber River is forecast 70% at Oakley, 63% at Wanship, 54% at Coalville, and 39% at Gateway. East Canyon is forecast 27%, Lost Creek 25%, Chalk Creek 42%, Hardscrabble 45%, and Farmington Creek 55%.

Provo River is forecast 68% at Hailstone, 55% at Deer Creek Dam, and 68% for Utah Lake inflow. American Fork is forecast 77%, Hobble Creek 43%, Spanish Fork 49%, and Payson Creek 54% of the 15 year average.

Streams above Salt Lake City are forecast 45% for Emigration Creek to 79% for Little Cottonwood Creek. Tooele Valley forecasts range from 50% of average for Vernon Creek to 69% for South Willow Creek near Grantsville. Settlement Creek is forecast 55% of average.

Uintah Basin forecasts range from 35% of average on Strawberry River to 107% on Henrys Fork. Currant Creek is forecast 37%, Duchesne at Tabiona 64%, Rock Creek 73%, Lakefork 87%, Yellowstone 84%, Uintah 84%, Whiterocks 90% and Ashley Creek 95%.

Blacks Fork is forecast 85% and Flaming Gorge inflow 56% of the April-July average.

Price River is forecast 64% for Scofield inflow and 52% at Heiner. Huntington Creek is forecast 72%, Cottonwood 43%, Ferron Creek 57%, Muddy Creek 44%, and Seven Mile Creek 74% of the April-July average. Mill Creek above Moab is forecast 89%, San Juan near Bluff 52%, Colorado at Cisco 55% and Green River 54% of average.

Sevier River's forecast 76% at Hatch, 88% at Kingston, 120% at Gunnison, Salina Creek 43%, Clear Creek 62%, Oak Creek 50%, Chicken Creek 45%, Salt Creek 23%, and Chalk Creek 52% of average. Ephraim Creek is forecast 55% and Pleasant Creek 70% of the April-July average. Beaver River is forecast 85% at Beaver, and 70% for Minersville inflow. Coal Creek is forecast 72%, Santa Clara 45%, Virgin River 74% and Lake Powell inflow 50% of the April-July average.



## WATER SUPPLY OUTLOOK (continued)

Water users with reservoir storage rights are expected to have a near average season - those depending on natural streamflow may have reduced water supplies by mid-summer.

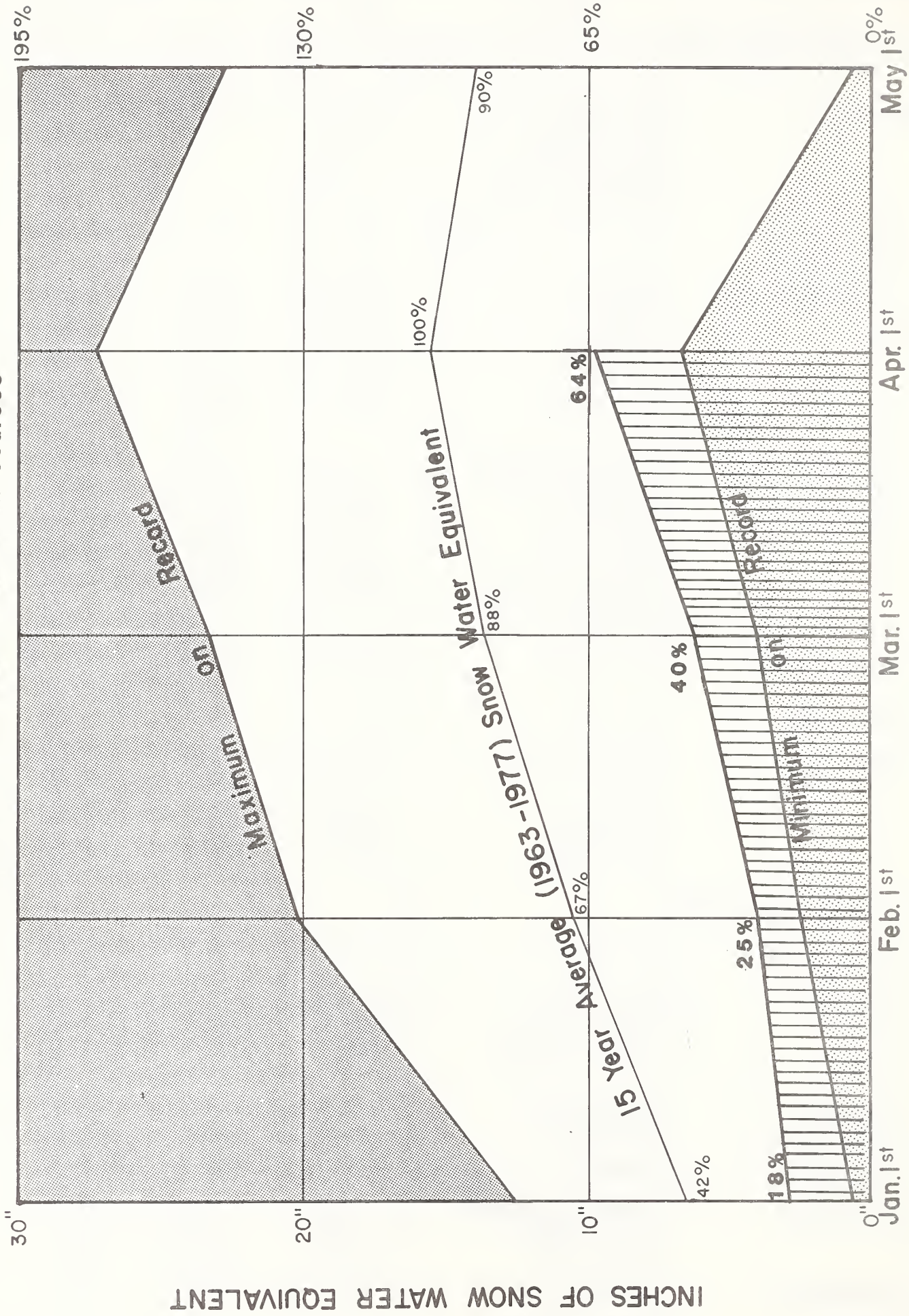


## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1,067.4	1,036.2	1,039.5
	Woodruff Narrows	26.5	22.8	17.5e	23.8
	Birch Creek	2.2			
	Woodruff Creek	4.0			
<u>Beaver River</u>	Minersville (RkyFd)	23.3	23.9	20.5	14.9
<u>Little Bear</u>	Hyrum	15.3	14.2	10.3	12.4
	Porcupine	11.3	4.3	4.2	5.2
<u>Ogden</u>	Causey	6.9	4.7	2.7	2.5
	Pineview	110.1	65.9	77.1	55.8
<u>Provo</u>	Deer Creek	149.7	119.5	121.5	108.7
<u>Settlement Creek</u>	Settlement Creek	1.2	0.6	0.6	--
	Vernon Creek	0.6	0.6	0.6	--
<u>Sevier River</u>	Gunnison	18.2	18.2	18.2	16.5
	Otter Creek	52.5	52.5	52.5	37.3
	Piute	71.8	70.0	50.8	49.9
	Sevier Bridge	236.0	230.8	192.0	146.8
	Panguitch Lake	22.3	20.1		
<u>Spanish Fork</u>	Strawberry	270.0	220.2	168.5	156.9
<u>Utah Lake</u>	Utah Lake	883.9	881.0	835.7	752.0
<u>Weber</u>	East Canyon	48.1	39.6	35.1	29.0
	Echo	73.9	61.5	54.9	50.7
	Lost Creek	20.0	17.4	12.9	13.1
	Rockport	60.9	47.7	18.7	32.5
	Willard Bay	193.3	186.2	183.3	145.6
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	28.0	16.7	23.4
<u>Colorado</u>	Blue Mesa	829.5	414.0	370.0	--
	Lake Powell	25002.0	21,593.0	21,240.0	--
<u>Green</u>	Flaming Gorge	3749.0	2,940.0	2,245.0	--
<u>Lakefork</u>	Moon Lake	35.8	18.2	10.5	19.6
<u>Price River</u>	Scofield	65.8	51.4	44.7	36.8
<u>San Juan</u>	Navajo	1696.0	1,231.0	1,017.0	--
<u>San Rafael</u>	Huntington North	3.9	3.9	3.9	3.6
	Joe's Valley	54.6	36.8	35.7	38.0
	Mill Site	16.7	10.6	4.2	--
<u>Strawberry</u>	Starvation	165.3	152.3	49.6	127.6
<u>Uintah</u>	Bottle Hollow	11.3	11.3	11.1	10.6

# UTAH'S WINTER SNOWPACK

Data based on 79 selected snow courses

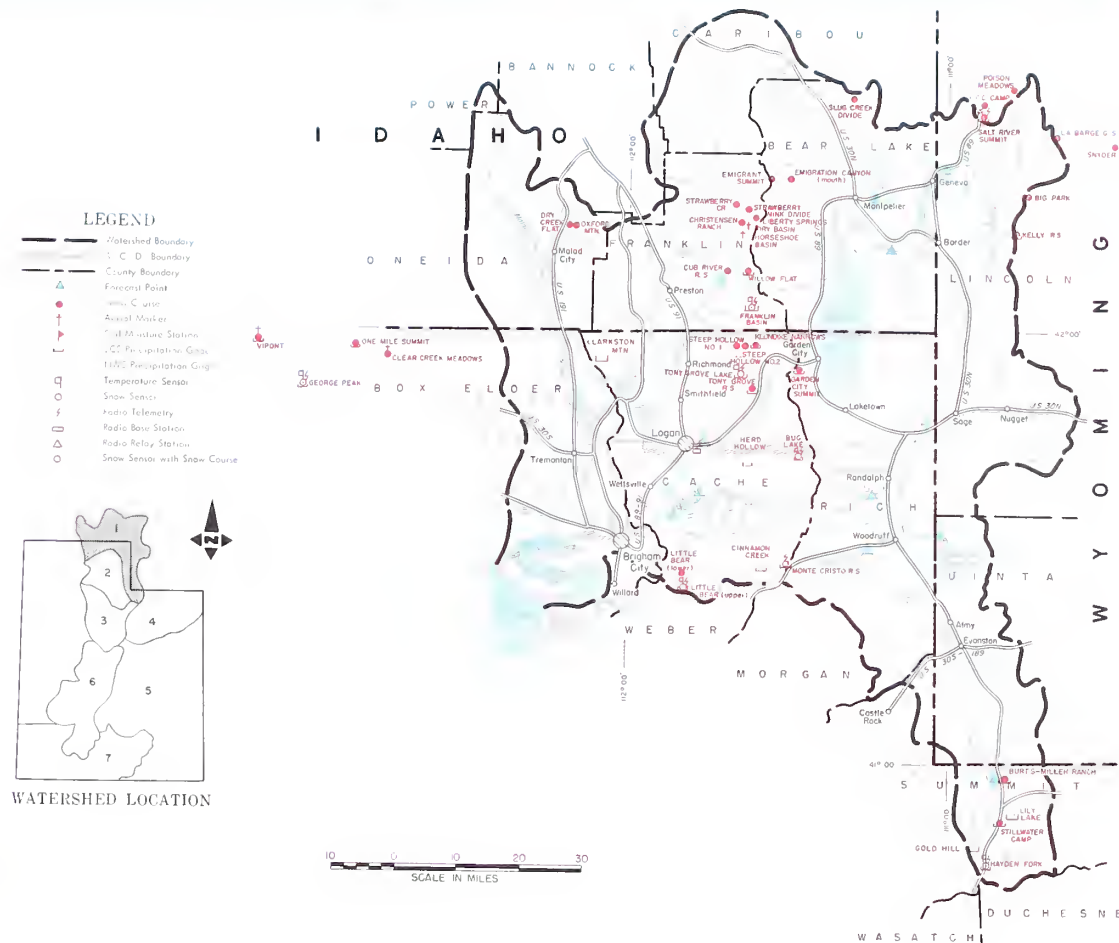




# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1981

### THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

**SNOW COVER** improved on the upper Bear this month and is now 63% of the April 1 average. The lower Bear is only 46% of average and Logan River is 47% of average. All three areas range from 39 to 51% of the snow water content on the ground at this time last year.

**PRECIPITATION** at mountain stations ranged from 74 to 99% of the March average and 46 to 93% for the October-March period.

**SOIL MOISTURE** under the snow is drier than normal and will soak up some melt water.

**RESERVOIR STORAGE** is near average in all reservoirs. Bear Lake is 103% (1,067,400 acre feet), Woodruff Narrows 96% (22,800 acre feet), Hyrum 115% (14,200 acre feet), and Porcupine 83% (4,300 acre feet).

**STREAMFLOW FORECASTS** range from 14% (2,600 acre feet) of average on Woodruff Creek to 82% (93,000 acre feet) for the Bear near Utah-Wyoming State Line. The Bear River is forecast 58% (86,000 acre feet) at Woodruff, 41% (49,000 acre feet) at Randolph and 36% (121,000 acre feet) at Harer, Idaho. Thomas Fork is forecast 43% (15,000 acre feet) and Smith's Fork 50% (60,000 acre

feet). Logan River is forecast 43% (51,000 acre feet), Blacksmith Fork 31% (17,000 acre feet). Little Bear 20% (7,600 acre feet), and Cub River 43% (20,000 acre feet). Water users in this area without reservoir storage are expected to have water shortages by mid-summer.

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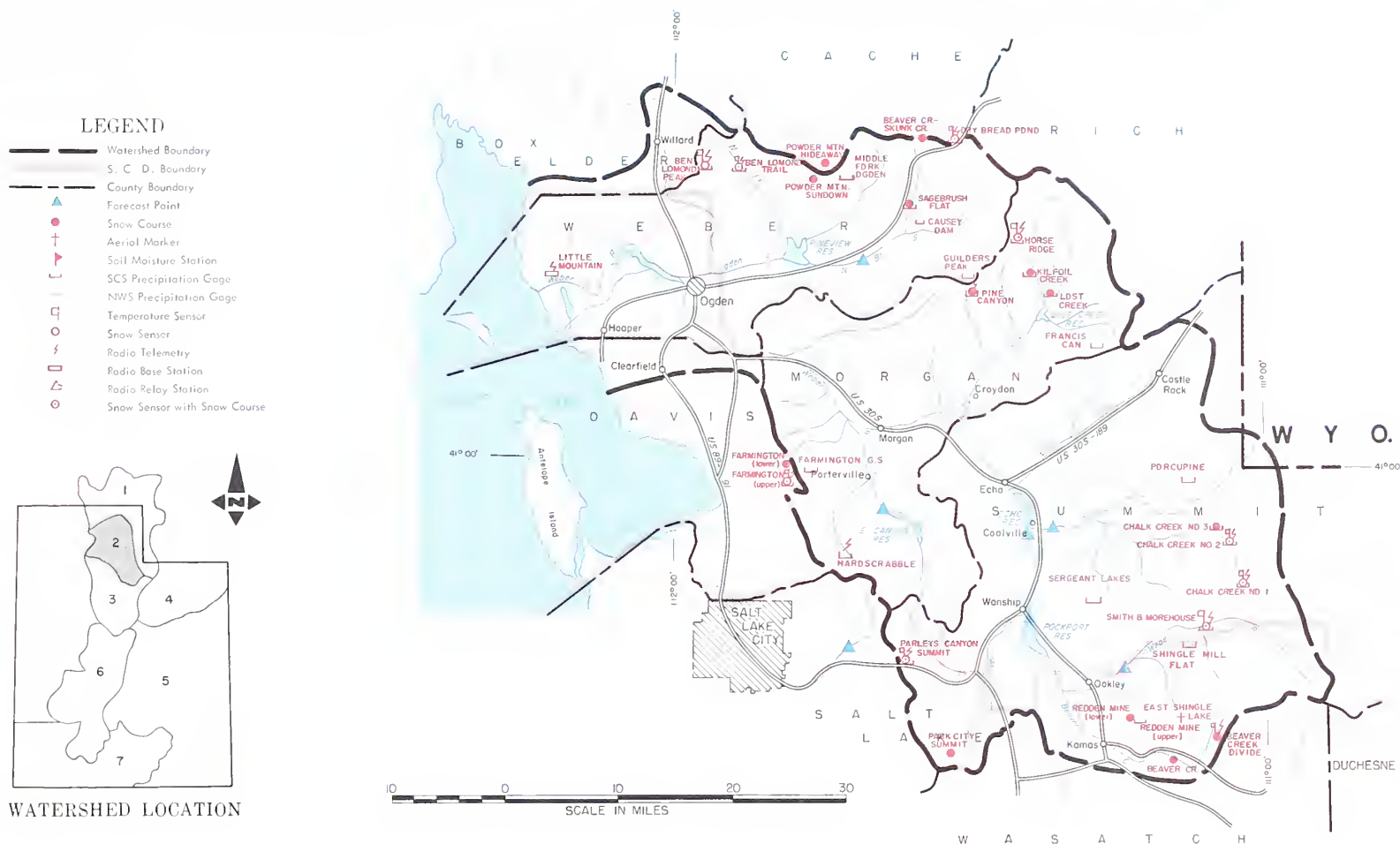
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# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



### THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

**SNOW COVER** as of the April 1st snow surveys indicate the Ogden River Basin at 50% of average and Weber Basin at 64%. The April 3rd SNOTEL update indicates good improvement by recent storms bringing the basin snow cover total up to about 73% of the April 1st average using only SNOTEL sites.

**PRECIPITATION** at mountain stations during March was the best it has been this year and ranged from 60 to 100% of average on the Ogden to 116 to 180% on the Weber Drainage. Heavy precipitation during March brought the October-March total up to around 50% on the Ogden and 70 to 100% on the Weber.

**SOIL MOISTURE** under the snow pack is still below average and is expected to reduce snow melt streamflow.

**RESERVOIR STORAGE** is above average as a result of a good year last year. Pineview is 118% (65,900 acre feet) but is not expected to fill this year. Causey is 188% (4,700 acre feet) and Willard is 128% (186,200 acre feet). Rockport is 147% (47,700 acre feet), Echo is 121% (61,500 acre feet), East Canyon is 137% (39,600 acre feet) and Lost Creek is 133% (17,400 acre feet) and all are expected to fill.

STREAMFLOW FORECASTS now range from 21% (12,100 acre feet) for the South Fork of the Ogden to 70% (73,000 acre feet) for Weber at Oakley. Pineview Inflow is forecast 26% (30,000 acre feet). Ogden River forecasts are only a little better than 1977 low flows for the April-June period.

Other Weber River forecasts are as follows: Rockport Inflow 63% (71,000 acre feet), at Coalville 54% (67,000 acre feet), Chalk Creek 42% (16,600 acre feet), Echo Inflow 55% (88,000 acre feet), at Gateway 39% (121,000 acre feet), Lost Creek 25% (4,400 acre feet), and Hardscrabble (6,600 acre feet) 45% of the April-June average. Farmington Creek is forecast 4,500 acre feet (55%).

Water users in the area who rely on natural streamflow will have short water supplies by mid-summer. Reservoir water users will have a near average supply this year but should conserve as much water as possible to provide some carry over supply for next year.

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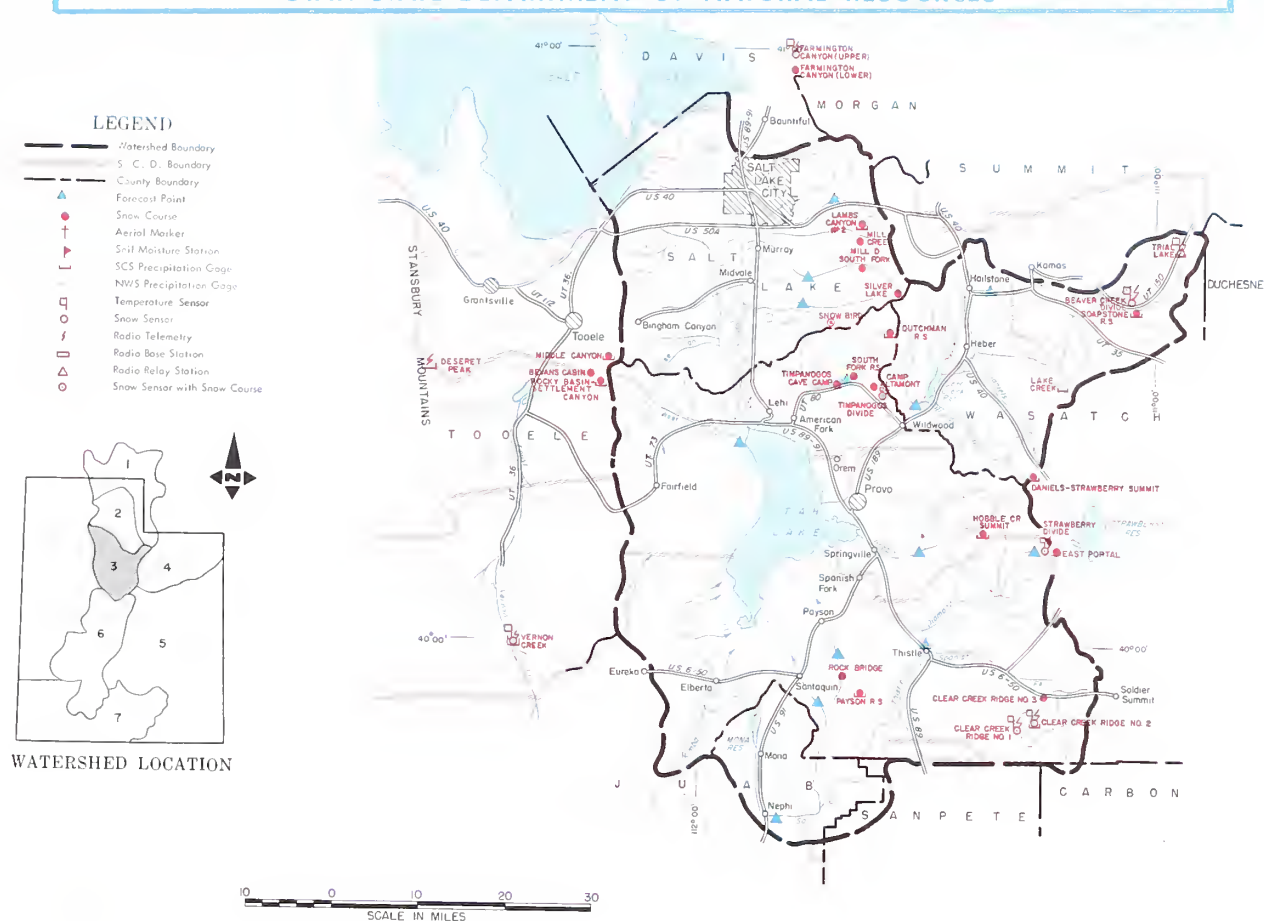
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# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1981

### THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

**SNOW COVER** now ranges from 66% along the Salt Lake front to 80% in Tooele Valley. Provo-Utah Lake drainage is now 71% of the April 1, 15 year average.

**PRECIPITATION** at mountain stations during March ranged from 92% of average at Hobbie Creek Summit to 163% at Soapstone. March was the first above average month this season. The October-March total precipitation now ranges from 69% of average at Hobbie Creek to 105% at Middle Canyon above Tooele.

**SOIL MOISTURE** under the snow pack is still drier than average although valley soils have improved with lower elevation rains.

**RESERVOIR STORAGE** is above average. Utah Lake is 117% (881,000 acre feet) -0.03 feet below compromise, Deer Creek 110% (119,500 acre feet), Strawberry 140% (220,200 acre feet), Settlement Creek 600 acre feet and Vernon Creek full at 600 acre feet. All reservoirs expected to fill except Strawberry where inflow forecasts are too low to make up the required storage.

STREAMFLOW FORECASTS range from 35% (18,300 acre feet) for the inflow to Strawberry Reservoir to 79% (30,000 acre feet) for Little Cottonwood Creek.

The Provo is forecast 68% (69,000 acre feet) at Hailstone, 55% (66,000 acre feet) at Deer Creek Dam, and 68% (165,000 acre feet) for Utah Lake inflow. American Fork is forecast 77% (24,000 acre feet), Hobbie Creek 43% (7,500 acre feet), Spanish Fork 49% (19,000 acre feet), and Payson Creek 54% (3,400 acre feet).

Streams along the Salt Lake front range from 45% (1,800 acre feet) for Emigration Creek to 79% for Little Cottonwood Creek. Big Cottonwood is forecast 76% (29,000 acre feet), Mill Creek 73% (4,600 acre feet), Parleys 55% (8,400 acre feet), and City Creek 53% (4,200 acre feet).

Tooele valley forecasts are 50% (500 acre feet) for Vernon Creek, 55% (1,200 acre feet) for Settlement Creek and a new forecast for South Willow Creek 69% (2,000 acre feet) for the April-July period.

Water users in this area depending on natural streamflow can expect water shortages by mid summer.

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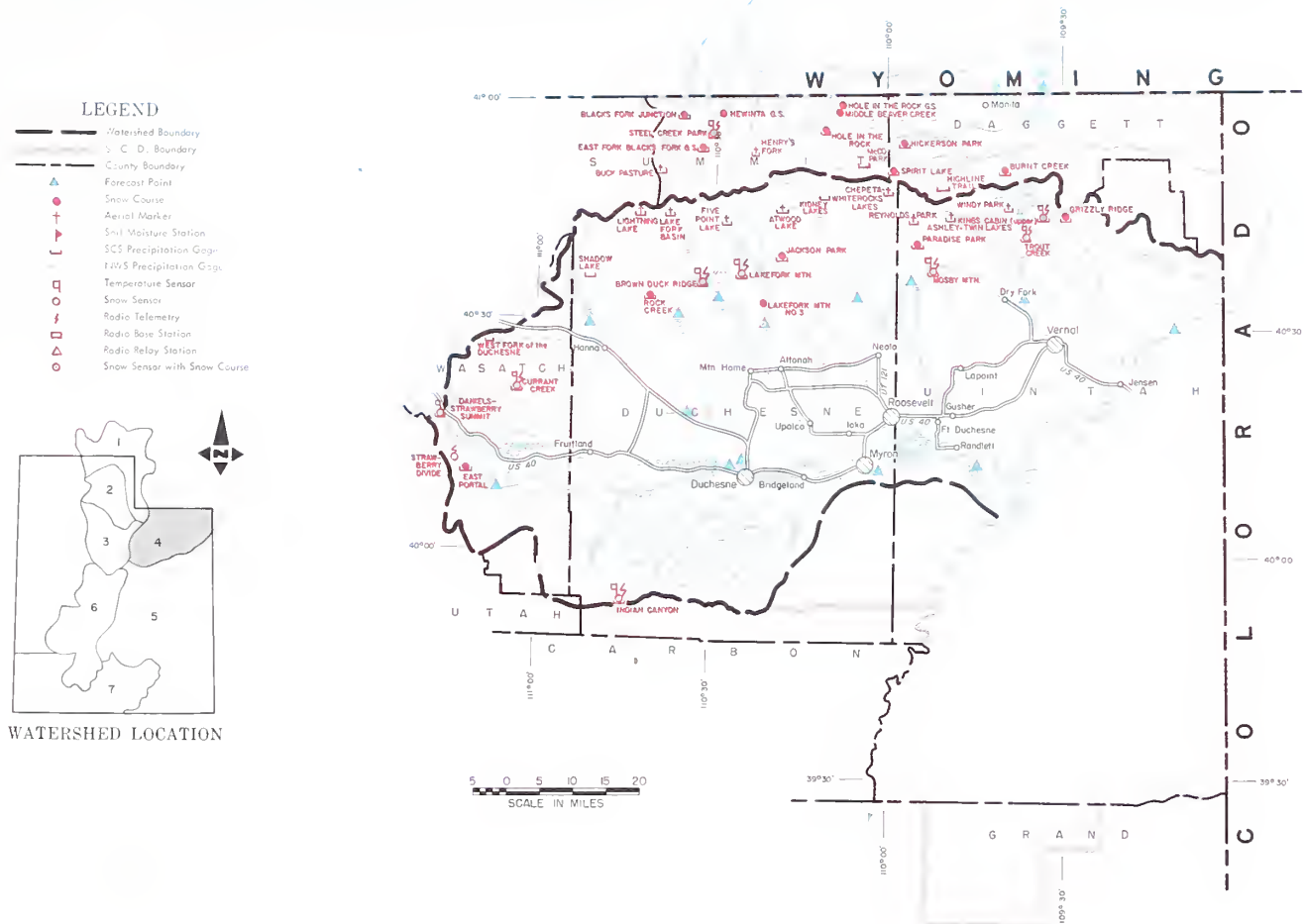


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# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1981

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER improved during March and now ranges from 77% of average on Strawberry River to 109% on the Uintah-Whiterocks Rivers. Lakefork-Yellowstone drainages are 99% of the April 1 average, Blacks' Fork is 84% and Ashley Creek is 102% of the 15 year average. All basins are only 37 to 56% of last year at this time.

PRECIPITATION at mountain stations during March was above average at all stations but Currant Creek (84%). Other stations ranged from 150% at Blacks' Fork Junction to 308% at Moseby Mountain. These heavy amounts increased the October-March total to 59% at Currant Creek and 107% at Paradist Park.

SOIL MOISTURE under the snow pack is below average due to poor fall precipitation prior to snow accumulation.

RESERVOIR STORAGE is near or above average. Steinaker is 120% (28,000 acre feet), Moon Lake 93% (18,200 acre feet), Starvation 119% (152,300 acre feet), Bottle Hollow 107% (11,300 acre feet), and Flaming Gorge has 2,940,000 acre feet or a gain of about 700,000 acre feet over 6 years ago.

STREAMFLOW FORECASTS range from 35% (20,000 acre feet) for Strawberry River to 107% (56,000 acre feet) for Henrys Fork a gain of 9 to 20% since March 1.

Other forecasts are as follows: Duchesne at Tabiona 64% (68,000 acre feet), 63% (121,000 acre feet) at Duchesne, 51% (108,000 acre feet) at Myton, and 50% (132,000 acre feet) at Randlette. Rock Creek is forecast 73% (69,000 acre feet), Currant Creek 37% (7,500 acre feet), Lakefork 87% (62,000 acre feet), Yellowstone Creek 84% (56,000 acre feet), Whiterocks 90% (54,000 acre feet), Uintah 84% (74,000 acre feet), Ashley Creek 95% (49,000 acre feet) and Blacks' Fork 85% (79,000 acre feet) for the April-July period.

Some water users without storage can expect water shortages by mid-summer.

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RESERVOIR STORAGE is above average except at Joes Valley where it holds 97% (36,800 acre feet) of the 15 year average. Scofield now holds 140% (51,400 acre feet), Huntington 108% (3,900 acre feet), and Mill Site holds 10,600 acre feet as of April 1st.

STREAMFLOW FORECASTS improved 13 to 24% of average and now range from 43% (19,000 acre feet) on Cottonwood Creek to 89% (4,500 acre feet) for Mill Creek above Moab. Price River is forecast 60% (6,000 acre feet) for Gooseberry Creek, 64% (23,000 acre feet) for Scofield inflow, and 52% (33,000 acre feet) at Heiner for the April-July period. Huntington Creek is forecast 72% (33,000 acre feet), Ferron Creek 57% (19,400 acre feet), Muddy Creek 44% (7,400 acre feet), and Seven Mile Creek near Fish Lake 74% (4,700 acre feet).

The Colorado is forecast 55% at Cisco, Green River 54% at Green River, and the San Juan 52% near Bluff.

Water users in this area depending on natural streamflow are expected to have reduced water supplies by mid-summer.

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STREAMFLOW FORECASTS range from 23% of average (2,800 acre feet) on Salt Creek near Nephi to 131% (34,000 acre feet) for the inflow Sigurd to Gunnison. Other Sevier River forecasts are as follows: 76% (31,000 acre feet) at Hatch, 86% (26,000 acre feet) at Circleville, 88% (20,000 acre feet) at Kingston, 92% (14,000 acre feet) for the East Fork, 94% (34,000 acre feet) below Piute Dam and 120% (60,000 acre feet) at Gunnison.

Clear Creek is forecast 62% (11,800 acre feet), Chalk Creek 52% (8,500 acre feet), Oak Creek 50% (700 acre feet), Chicken Creek 45% (1,400 acre feet), Ephraim Creek 55% (8,000 acre feet), Pleasant Creek 70% (5,900 acre feet) and Salina Creek forecast 43% (5,000 acre feet) for the April-July period.

Beaver River is forecast 85% (17,000 acre feet) at Beaver, 75% (10,300 acre feet) for North Creeks, and 70% (4,600 acre feet) for Minersville inflow.

Water users in this area with reservoir storage rights are expected to have a good water year. Those on natural streamflow are expected to have reduced water supplies by mid-summer unless a much wetter than normal spring occurs.

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# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1981

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER improved during March and ranges from 62% of average on Virgin River to 70% on Parawon Creek. The Enterprise-New Harmony areas is 63% and Coal Creek is 66% of the April 1 average. These areas have only 20 to 39% of the snow water on the ground at this time last year.

PRECIPITATION at mountain stations ranged from 46% of average at Little Grassy during March to 203% at Webster Flat. The October-March total precipitation now ranges from 63 to 85% of average.

SOIL MOISTURE under the snow pack is still drier than average and is expected to soak up snow melt.

RESERVOIR STORAGE is reported as good.

STREAMFLOW FORECASTS now range from 45% (3,600 acre feet) for the Santa Clara near Pine Valley to 74% (36,000 acre feet) for the Virgin near Hurricane. Coal Creek is forecast 72% (12,000 acre feet), and Lake Powell inflow 50% (3,500,000 acre feet) for the April-July period.

Water users depending on natural streamflow are expected to have reduced water supplies by mid-summer in this area.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
Federal Bldg. - Room 4012  
Salt Lake City, Utah 84138  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300



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**FIRST CLASS MAIL**

*"The Conservation of Water begins with the Snow Survey"*

## SNOW

SNOW	THIS YEAR					PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT 1 TO DATE		
	DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average	
					Last Year	Average †							
GREAT BASIN													
UPPER BEAR RIVER (Above Harer, Idaho)													
Burts-Miller Ranch	3/29	29	7.0	9.3	6.1	3/29	3.89	--	11.10	12.00b	93		
CCC Camp	3/30	31	7.5	13.6	13.4								
Hayden Fork	3/29	47	12.5	23.0	15.9	3/29	5.56	--	15.94	20.06b	79		
Monte Cristo R.S.	3/25	38	12.3	31.1	25.9	3/25	3.70	4.68	13.83	25.95	53		
Salt River Summit	3/30	38	8.8	16.4	16.9	3/30	2.19	2.97	9.75	17.23	57		
Stillwater Camp	3/29	37	7.9	15.7	11.3b	3/29	4.20	--	--	12.39	--		
Lily Lake	3/29	53	10.8	18.4	--	3/29	4.63a		13.66a				
LOWER BEAR RIVER (Below Harer, Idaho)													
Bug Lake	3/25	31	8.9	24.8	20.7a	3/25	1.63a		10.77a				
Cub River R.S.	3/26	9	3.2	10.4	6.9								
Emigrant Summit	3/30	43	12.6	27.6	26.0								
Franklin Basin	3/26	49	14.4	32.1	28.2	3/26	4.00a	--	16.72a	--			
Garden City Summit	3/25	24	7.1	21.1	18.5								
Klondike Narrows	3/25	30	9.9	25.9	20.7	3/25	2.65	4.25b	11.09	23.85b	46		
Little Bear (lower)	3/25	7	2.2	12.6	9.9								
Little Bear (upper)	3/25	17	6.4	16.7	12.9	3/25	2.50a	2.91b	12.46a	18.13b	69		
Slug Creek Divide	3/30	33	9.0	19.5	18.0								
Steep Hollow #1	3/25	68	19.0	42.2	38.0								
Steep Hollow #2	3/25	44	14.3	31.8	27.0								
Tony Grove Lake	3/25	54	15.5	41.0	35.0a	3/25	4.13a	4.16b	16.11a	--			
Tony Grove R.S.	3/25	12	3.5	14.0	11.9	3/25	2.19	2.85b	9.07	--			
Willow Flat	3/26	18	6.6	20.4	14.8	3/26	3.06	4.04	12.77	22.89	56		
OGDEN RIVER													
Beaver Creek-Skunk Creek	3/25	12	4.1	18.3	12.0								
Ben Lomond Peak	3/25	61	18.8	56.5	34.1			6.17b		47.13b			
Ben Lomond Trail	3/25	23	8.4	27.8	16.2b	3/25	3.77	3.76b	13.74	28.74b	48		
Causey Dam	3/25	0	0.0			3/25	1.84	2.31b	6.89	14.22	48		
Dry Bread Pond	3/25	25	9.4	29.5	18.9	3/25	2.50a	3.88b	10.40a	20.84	50		
Sagebrush Flat	3/25	0	0.0	4.9	2.0	3/25	1.57	2.28b	6.45	14.35	45		
WEBER RIVER													
Beaver Creek R.S.	3/29	19	5.4	14.9	7.2								
Chalk Creek #1	3/29	66	16.7	30.2	22.4	3/29	6.06a	3.40b	18.74	17.70	106		
Chalk Creek #2	3/29	52	12.3	19.3	15.6	3/29	4.13a	3.11b	13.13a	16.17b	81		
Chalk Creek #3	3/29	26	7.2	11.9	7.5	3/29	4.22	2.68b	12.45	13.94b	89		
Farmington Canyon (lower)	3/25	59	17.5	34.0	22.4b	3/25	7.76	5.23b	19.57	27.63	71		
Farmington Canyon (upper)	3/25	67	20.5	43.1	30.8								
Farmington G.S.	3/25	54	16.0			3/25	7.38	5.49	20.34	29.01	70		
Horse Ridge	3/25	34	10.6	27.3	21.9b	3/25	3.90	4.24b	12.03	23.64	51		
Kilfoil Creek	3/25	30	8.0	22.7	13.5b								
Lost Creek Reservoir	3/25	0	0.0	--	2.0b	3/25	2.27	--	11.33	--			
Park City Summit	3/31	62	18.2	29.5	--								
Parley's Canyon Summit	3/26	44	12.0	23.5	18.5	3/25	4.73	4.07	15.82	22.55	70		
Redden Mine (lower)	3/29	44	12.6	24.1	18.0	3/29	4.78		14.05				
Smith & Morehouse	3/29	39	9.4	18.3	12.9	3/29	5.20	3.04	16.21	17.75	91		
PROVO RIVER & UTAH LAKE													
Beaver Creek Divide	3/29	28	8.4	20.1	10.8a	3/29	4.25a		9.90a				
Camp Altamont	3/25	34	12.6	28.2	13.4								
Clear Creek Ridge #1	3/30	46	10.7	27.2	18.2			5.40b		21.20b			
Clear Creek Ridge #2	3/30	40	10.0	21.3	13.6	3/30	3.95	2.71b	11.75	16.06b	73		
Clear Creek Ridge #3	3/30	6	1.6	10.8	5.2								
Dutchman R.S.	3/25	30	13.0	33.8	15.4	3/25	3.90	3.07b		20.82			
Hobble Creek Summit	3/25	27	7.6	21.3	12.9	3/25	2.49	2.70	11.80	17.19	69		
Payson R.S.	3/25	34	10.1	24.1	18.4	3/25	3.03	2.90	12.67	17.95	71		
Soapstone R.S.	3/29	31	8.6	19.2	11.6	3/29	3.90	2.40	12.66	16.22	78		
South Fork R.S.	3/25	10	4.8	7.4	3.2								
Timpanogos Cave Camp	3/25	0	0.0	0.1	0.6								
Timpanogos Divide	3/25	50	17.2	40.2	23.5	3/25	4.50	3.36	19.92	25.09	79		
Trial Lake	3/29	64	16.3	38.6	23.5	3/29	5.35	3.77	18.14	23.84	76		

# SNOW

# PRECIPITATION (Inches)

SNOW		THIS YEAR		PAST RECORD		PRECIPITATION (Inches)						
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
NAME					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
JORDAN RIVER & GREAT SALT LAKE												
Bevan's Cabin		3/28	35	10.8	12.3	11.5						
Lamb's Canyon #2		3/26	39	10.5	21.8	--	3/26	3.49		11.74		
Middle Canyon		3/27	38	11.4	19.2	14.1	3/27	5.20	3.39	16.70	15.92	105
Mill Creek		3/30	59	16.6	25.9	--						
Mill D South Fork		3/27	44	13.1	24.0	19.9						
Mt. Dell Dam								4.20	2.09		13.23	
Rock Basin-Settlement Canyon		3/31	77	21.7	39.8	27.1	3/31	7.60a	--		24.01b	
Silver Lake (Brighton)		3/27	57	16.3	37.2	24.9		5.75	4.80		27.18	
Snowbird (Gad Valley)		3/31	83	21.2	53.8	--						
Vernon Creek		3/27	28	7.2	17.3	11.2a	3/27	3.20	2.51b	10.30	15.27	67
Deseret Peak		3/31	77	22.2	33.5	--	3/31	7.10a		22.50a		
UPPER SEVIER RIVER (South of Richfield, Utah)												
Box Creek		3/29	41	7.9	19.7	12.9	3/29	4.91	2.79	11.91	13.89	86
Bryce Canyon		3/31	8	2.3	11.4	3.1						
Castle Valley		3/27	36	9.9	21.3	11.3	3/27	6.10	2.77	12.73	13.89	92
Duck Creek R.S.		3/27	26	7.4	28.7	11.5	3/27	6.20	3.28b	12.99	16.53	79
Farview		3/31	17	5.6	18.8	--						
Harris Flat		3/27	11	3.4	20.7	6.5	3/27	2.88a		8.61a		
Kimberly Mine		3/25	38	10.7	25.4	15.8	3/25	4.27	3.79b	13.57	18.17	75
Midway Valley		3/27	47	11.9	38.0	20.1	3/27		3.71b		19.17b	
Panguitch Lake		3/27	13	2.6	8.7	2.9	3/27	4.08	1.38	7.75	7.89	98
Rainbow Point		3/31	13	3.8	25.6	--						
Squaw Springs		3/29	13	3.7	14.3	6.6						
LOWER SEVIER RIVER (Including San Pitch River)												
Beaver Dams		3/29	14	3.2	16.7	10.6	3/29	3.96	2.41	11.56	13.07	88
Farnsworth Lake		3/29	56	14.2	23.5	19.5	3/29	9.09	4.33	16.56	19.56	85
G.B.R.C Headquarters		3/29	45	12.2	26.9	15.8	3/29	5.49	4.08	15.06	18.29	82
G.B.R.C. Majors									1.56b		8.51	
G.B.R.C Meadows		3/29	59	17.2	31.3	22.4	3/29	5.70a	4.10	17.25a	21.67	80
G.B.R.C Oaks									2.17		11.87	
Gooseberry R.S.		3/29	37	8.9	16.8	12.0	3/29	4.40	3.04b	12.71	12.91b	98
Mammoth-Cottonwood Creek		3/29	44	12.9	30.6	20.3			2.75b		18.11	
Middle Fork		3/29	71	18.7	26.3	23.4						
Mt. Baldy R.S.		3/29	59	16.4	30.8	21.8	3/29	8.80a	3.14	16.80a	16.90	99
Oak Creek		3/30	37	8.4	21.6	11.5b	3/30	3.90	--	11.50	13.78b	83
Pickle Keg Springs		3/29	43	10.9	22.9	16.1b	3/29	5.25a	--	15.64a	--	
Pine Creek		3/25	29	9.4	19.7	15.2	3/25	4.40	4.94	9.40	23.47	40
Ree's Flat		3/25	34	9.3	19.1	12.2	3/25	3.23	--	10.38	--	
Shingle Mill		3/31	33	7.4	11.2	8.4	3/31	5.45	3.10	13.25	15.68	85
Thistle Flat		3/29	46	11.4	22.8	15.9						
Gooseberry Res.		3/29	0	0.0	--	--	3/29	5.10a	3.60	14.80	21.71	68
BEAVER RIVER												
Beaver Race Track					--	--			1.72		8.53	
Big Flat		3/25	51	13.5	28.4	16.1	3/25	5.25	3.00	13.53	15.53	87
Merchant's Valley (upper)		3/25	24	7.2	20.0	9.7b	3/25	4.86	2.96b	12.39	14.25	87
Otter Lake		3/25	37	10.1	21.9	12.3						
PAROWAN CREEK												
Birch Crossing		3/26	9	2.7	13.7	5.3b						
Brian Head		3/27	61	15.1	30.8	19.9b						
Tall Poles		3/26	30	8.5	27.5	13.8b	3/26	3.90	3.02b	11.60	14.89b	78
Yankee Reservoir		3/27	31	7.3	14.0	9.0	3/27	3.60	2.73b	7.69	12.13	63
ENTERPRISE TO NEW HARMONY DRAINAGES												
Little Grassy Creek		3/27	0	0.0	8.0	2.0	3/27	1.00	2.16		14.49	
Long Flat		3/27	14	4.7	15.4	5.5	3/27	4.65	2.40		11.63	
COAL CREEK												
Cedar City Golf Course		3/26	0	0.0								
SUSC Ranch		3/26	11	3.2	17.8	6.1b						

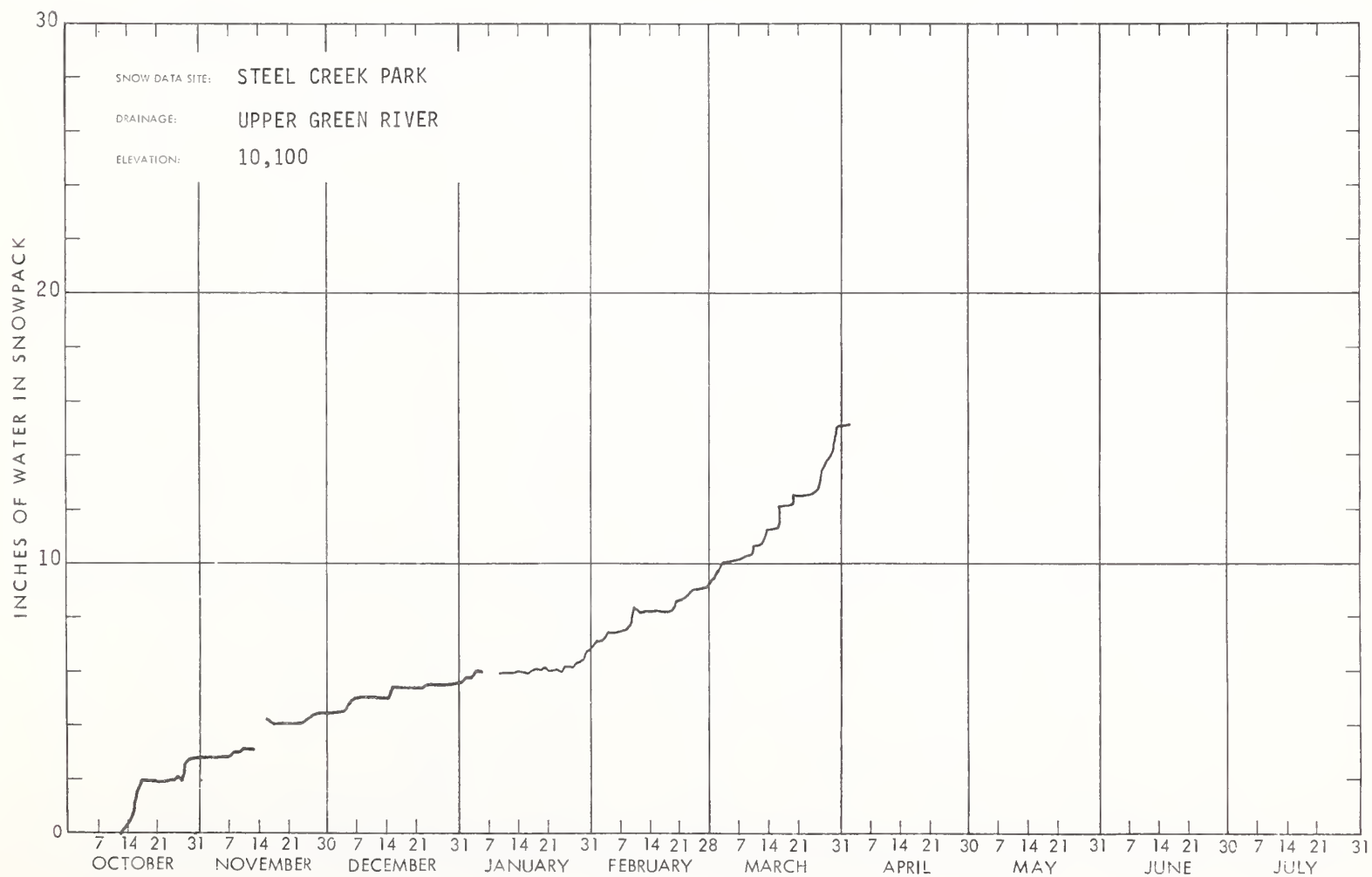
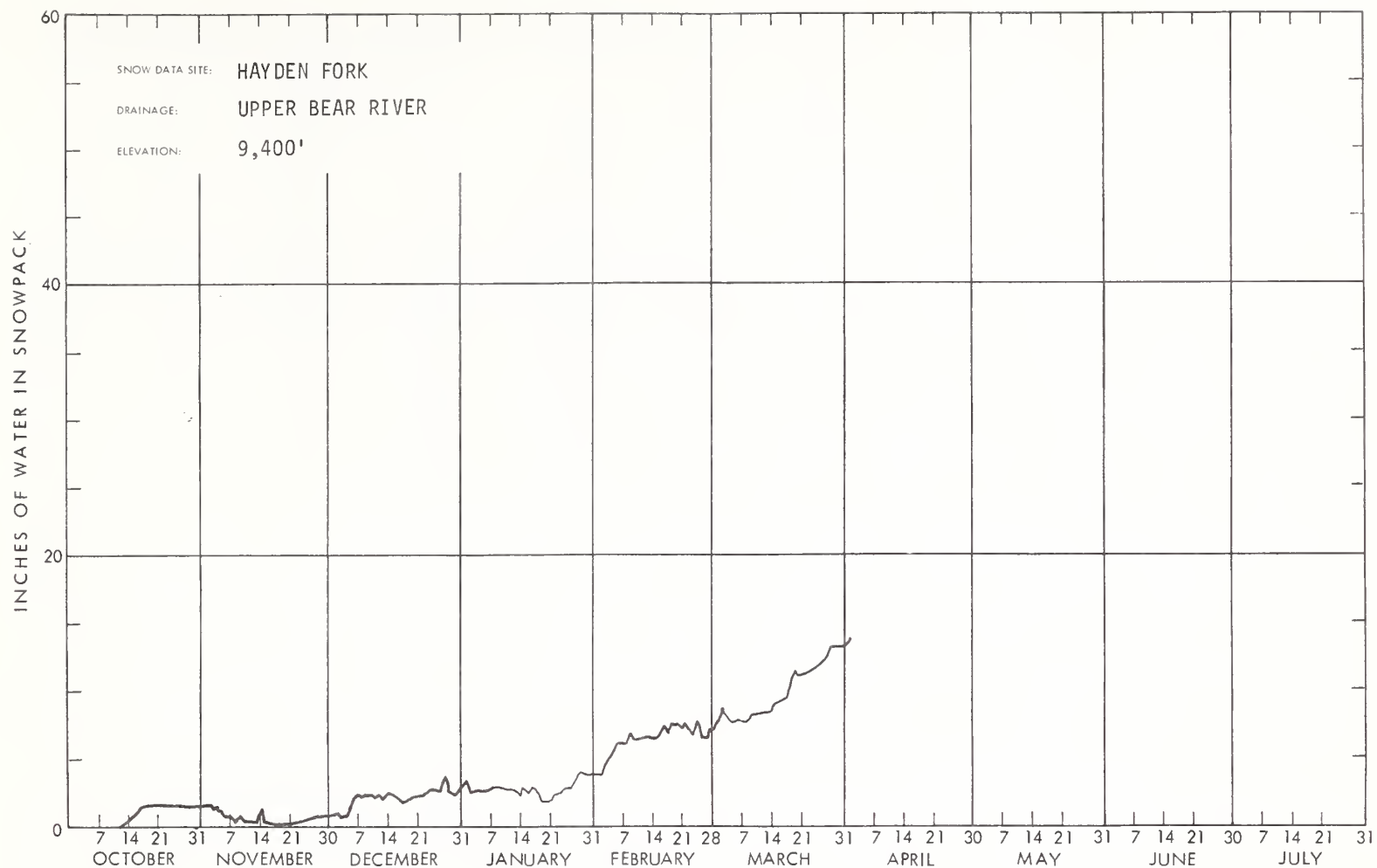


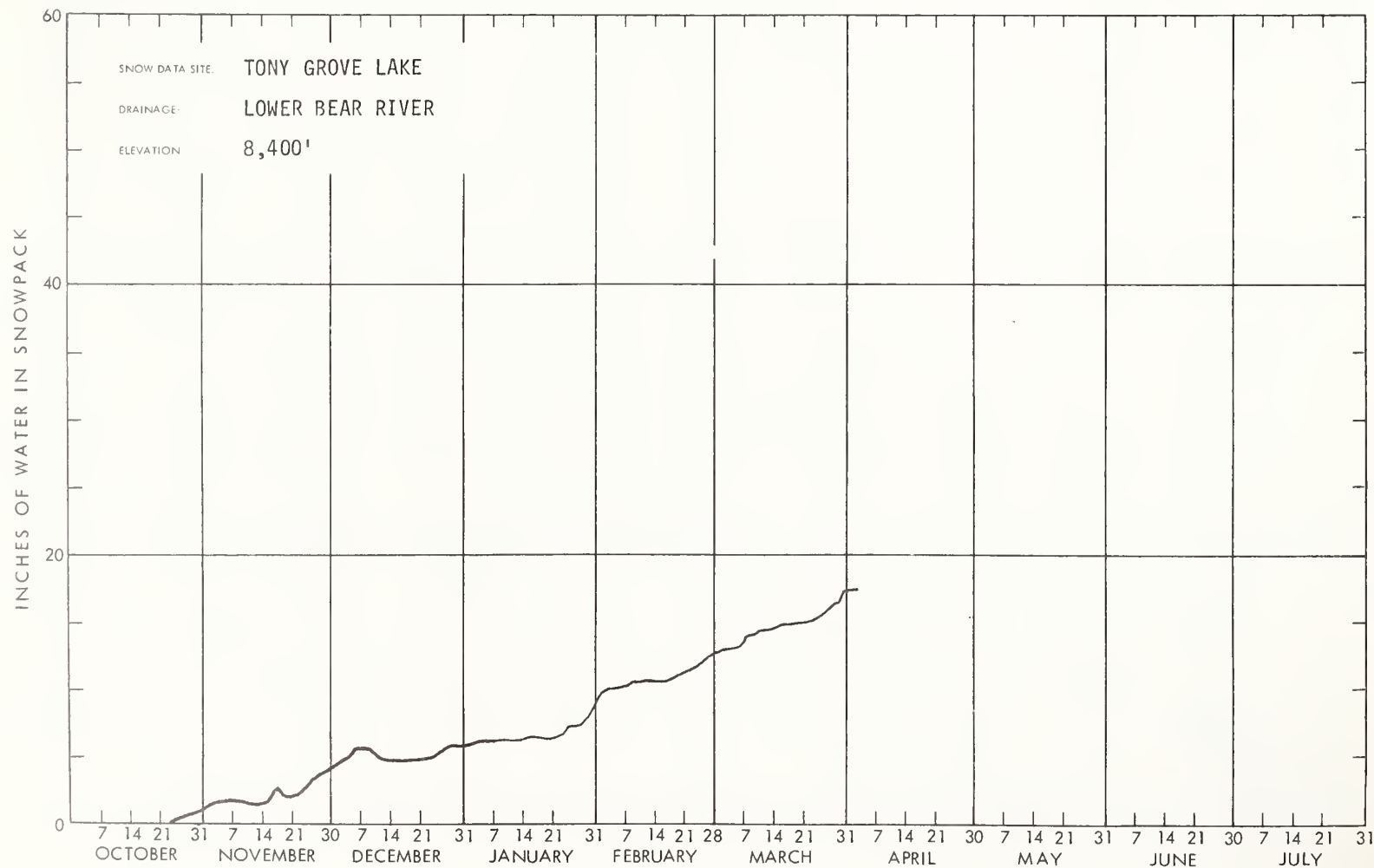
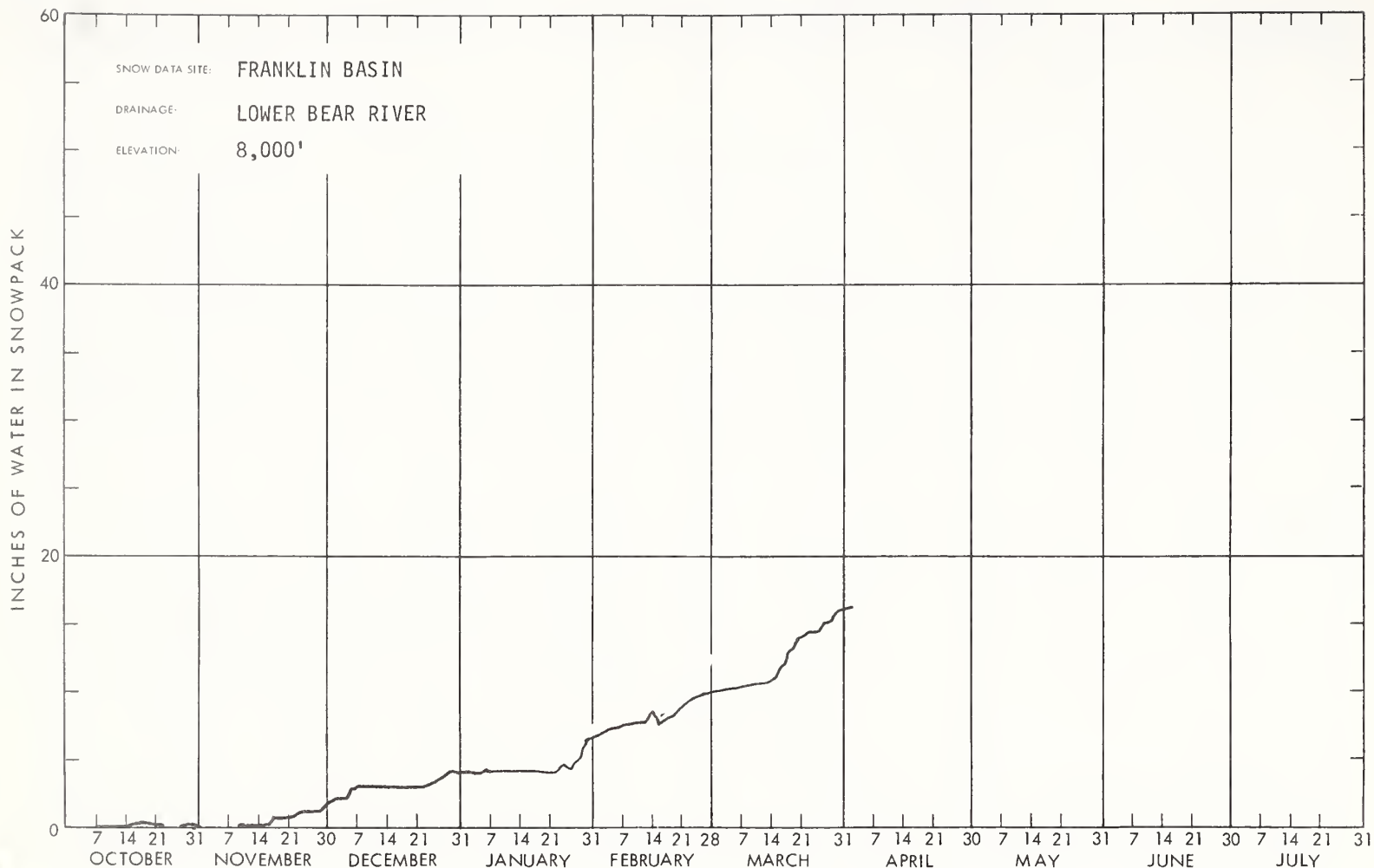
# SNOW

SNOW DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Opth (Inches)	Water Content (Inchas)	Water Content (inches)		CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)				25.2	--						
Black's Fork G.S.-East Fork	3/29	35	7.3	13.6	9.0	3/29	4.53	2.43	11.81	11.94	99
Black's Fork Junction	3/29	32	7.2	15.1	9.2	3/29	3.37	2.25	10.53	11.62	91
Buck Pasture (A)				24.0	--						
Burnt Creek	3/30	22	5.0	7.8	--	3/30	2.60	1.51b	9.40	8.83b	106
Grizzly Ridge	3/30	31	7.2	17.3	--	3/30	3.60	2.23b	11.20	12.78	88
Hewinta G.S.	3/29	37	8.0	15.0a	9.4	3/29	4.22	2.50	11.78	12.56	94
Hickerson Park	3/31	36	8.3	14.6	5.9b	3/31	4.24	1.76b	10.21	9.41b	109
Hole in the Rock	3/30	35	6.5								
Hole in the Rock G.S.	3/30	17	4.5								
Middle Beaver Cr.	3/30	18	3.6								
King's Cabin (upper)	3/31	33	8.4	18.5	9.8	3/31	3.92	1.90	10.42b	11.14	94
Reynolds Park (A)				22.4	--						
Spirit Lake	3/31	55	14.7	19.1	12.1	3/31	5.69	2.57b	15.85	13.61b	116
Steel Creek Park	3/29	60	13.6	21.0	15.6	3/29	6.00a	2.75b	13.80a	20.85b	66
Trout Creek	3/31	36	8.4	18.1	--	3/31	3.01	--		--	
Windy Park (A)											
DUCHESNE RIVER											
Atwood Lake (A)				16.3	--						
Brown Duck Ridge	3/31	67	14.6	22.5	17.4a	3/31	6.09	3.41b	14.93	20.70b	72
Chepeta-Whiterocks	3/31	52	12.5	21.6	--						
Currant Creek	3/25	2	0.3	19.2	7.7	3/25	1.80	2.14b	8.15	13.79b	59
Daniels-Strawberry Summit	3/25	25	7.6	24.7	13.7	3/25	2.30a	2.68	10.97	17.81	62
East Portal	3/30	26	9.0	17.8	10.9	3/30	3.46	2.51b	11.73	16.73	70
Five Points Lake (A)				25.9	--						
Indian Canyon	3/29	38	9.5	19.7	12.0	3/29	8.14	1.91	14.76	12.78	115
Jackson Park	3/31	54	12.4	22.7	11.5b	3/31	6.44a	--	12.50a	12.68	99
Lakefork Basin (A)				22.9	--						
Lakefork Mountain	3/31	42	9.9	19.1	10.6	3/31	5.28	2.08	12.98a	12.62	103
Lakefork Mountain #3	3/31	20	4.9	14.4	5.3						
Lightning Lake (A)				34.2	--						
Mosby Mountain	3/31	34	8.4	18.7	8.6	3/31	4.53	1.47b	12.15	12.00	101
Paradise Park	3/31	52	14.1	19.3	11.8	3/31	5.34a	1.78b	14.20a	13.05	109
Rock Creek Ranch	3/31	21	5.8	12.3	5.8	3/31	4.54	--	9.94	11.04	90
Strawberry Divide	3/30	49	13.6	27.3	18.5	3/30	3.25a		15.37a		
PRICE RIVER											
Dry Valley Divide Alternate	3/30	12	2.5	16.9	--						
Mud Creek	3/29	26	7.8	23.1	12.3	3/29	3.95	2.56	9.30	14.25	65
White River #1	3/30	33	8.0	20.1	12.8	3/30	4.06	2.14	10.55	13.22	80
White River #3	3/30	4	0.6	13.8	6.1						
SAN RAFAEL RIVER											
Buck Flat	3/29	36	9.8	25.6	15.4	3/29	4.47	2.71	11.54	17.21	67
Huntington-Horseshoe	3/29	50	17.1	32.3	22.7						
Orange Olsen	3/29	0	0	9.3	--	3/29	2.10	1.01b	4.75	7.40	64
Red Pine Ridge	3/29	34	9.1	24.2	16.5	3/29	4.90	3.54	14.16	19.79	72
Seeley Creek R.S.	3/29	30	8.4	24.0	16.0		3.25	--	8.53	--	
Stuart R.S.	3/29	4	1.1	16.8	6.5	3/29	3.15	--	7.02	11.62	60
Upper Joe's Valley	3/29	15	4.3	17.2	9.5						
Wrigley Creek	3/29	24	7.2	19.6	10.1						
MUDDY RIVER											
Black's Fork	3/29	31	8.8	20.1	12.6						
Dill's Camp	3/29	22	5.8	20.2	11.4	3/29	4.09	--	10.31	14.40b	72
FREMONT RIVER											
Black's Flat-U.M. Creek	3/29	26	7.1	16.8	10.4	3/29	4.02	2.46b	8.91	12.10b	74
Fish Lake	3/29	21	5.6	10.6	7.0	3/29	3.42	1.68	7.29	9.18	79
Johnson Valley	3/29	11	3.0	12.4	6.1						
Donkey Res	3/28	30	6.9	14.8	6.9						

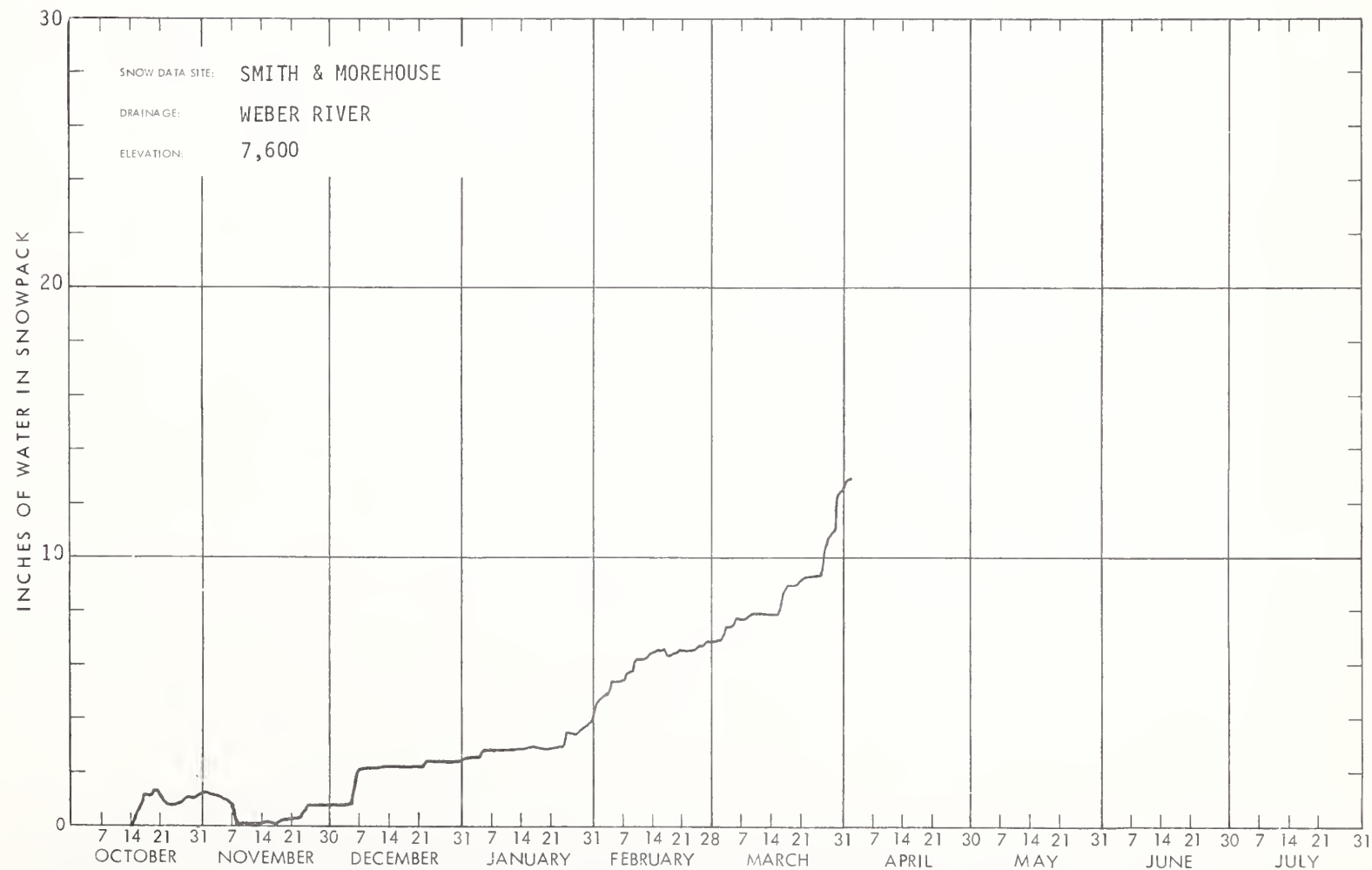
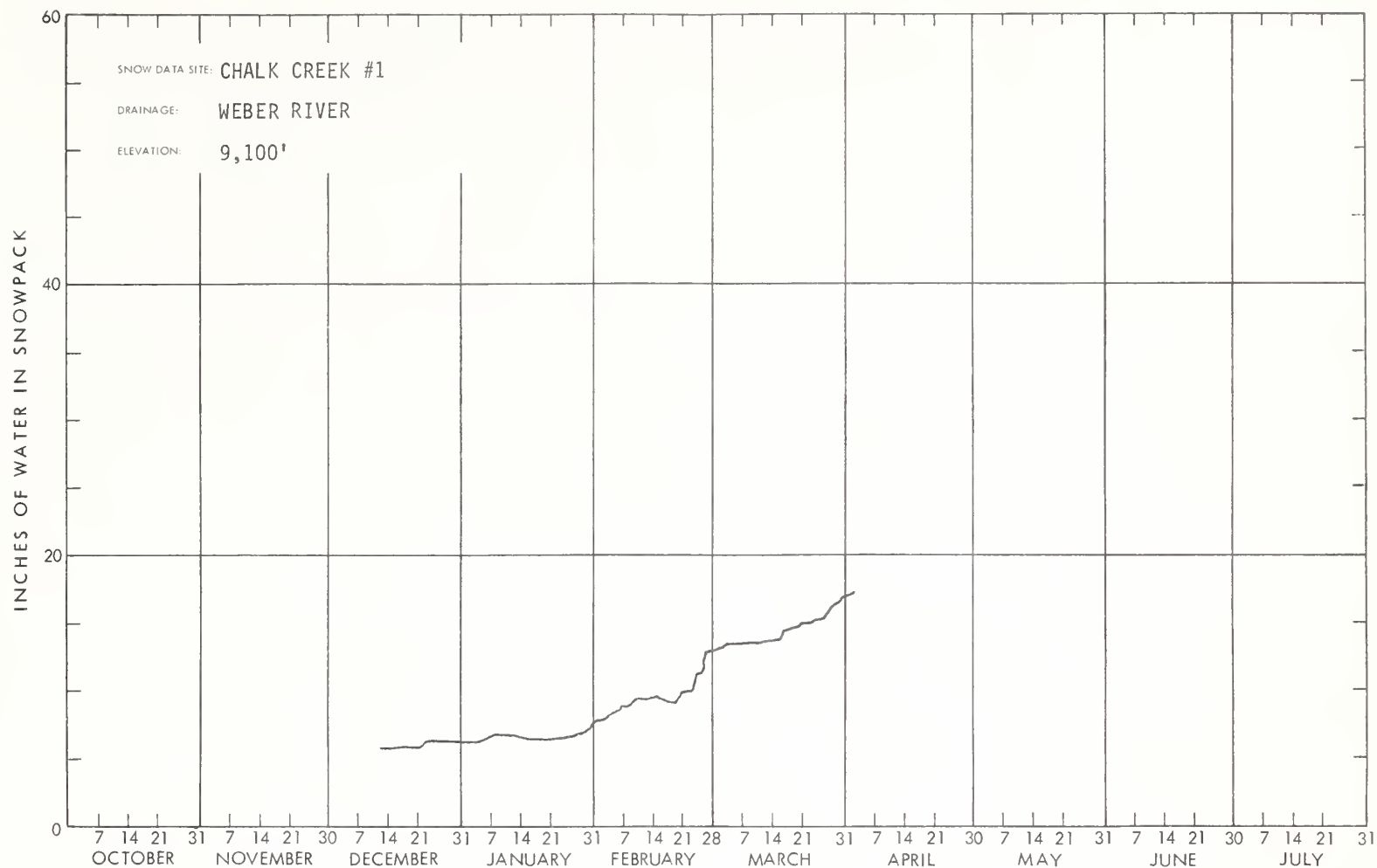
# SNOW

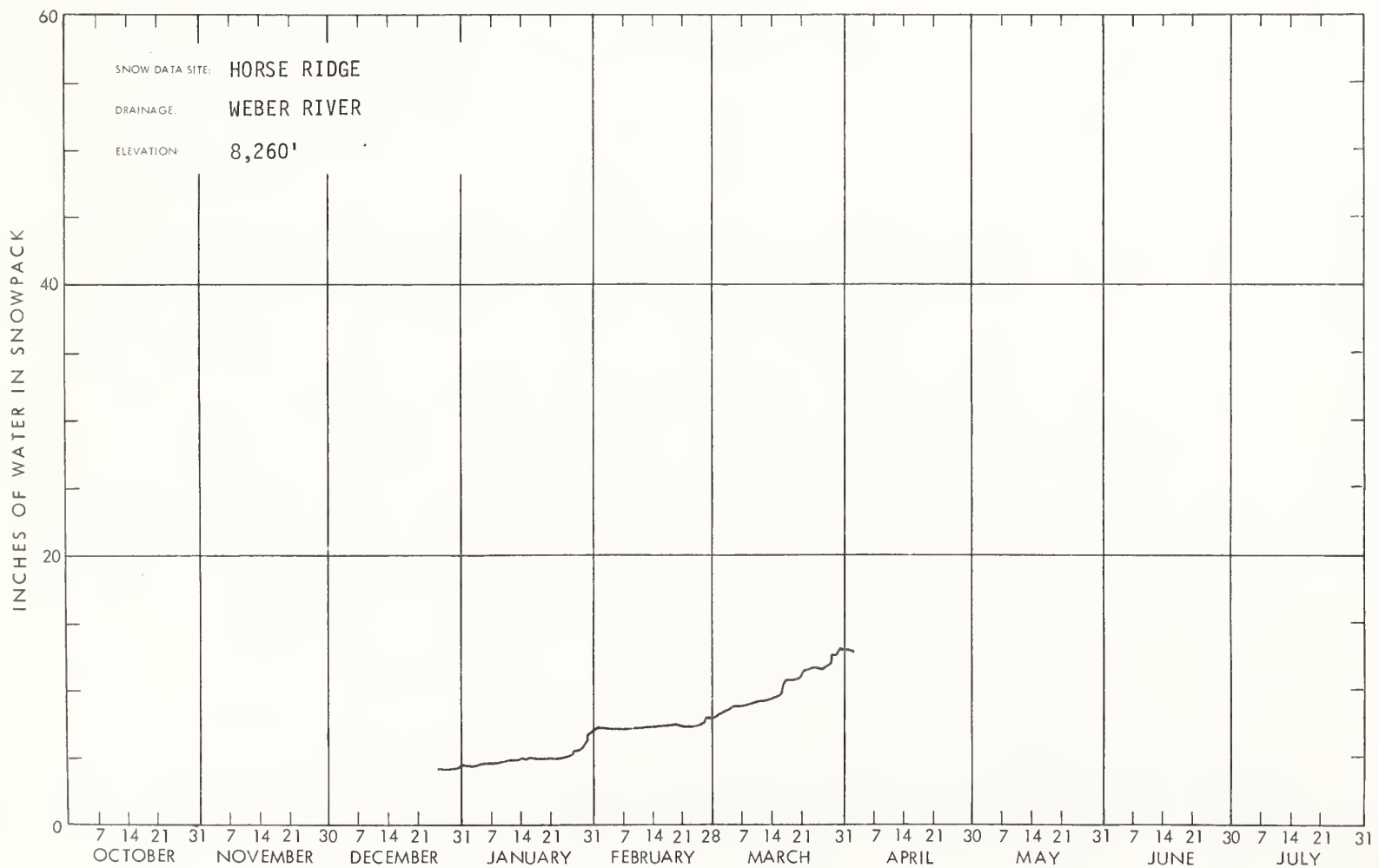
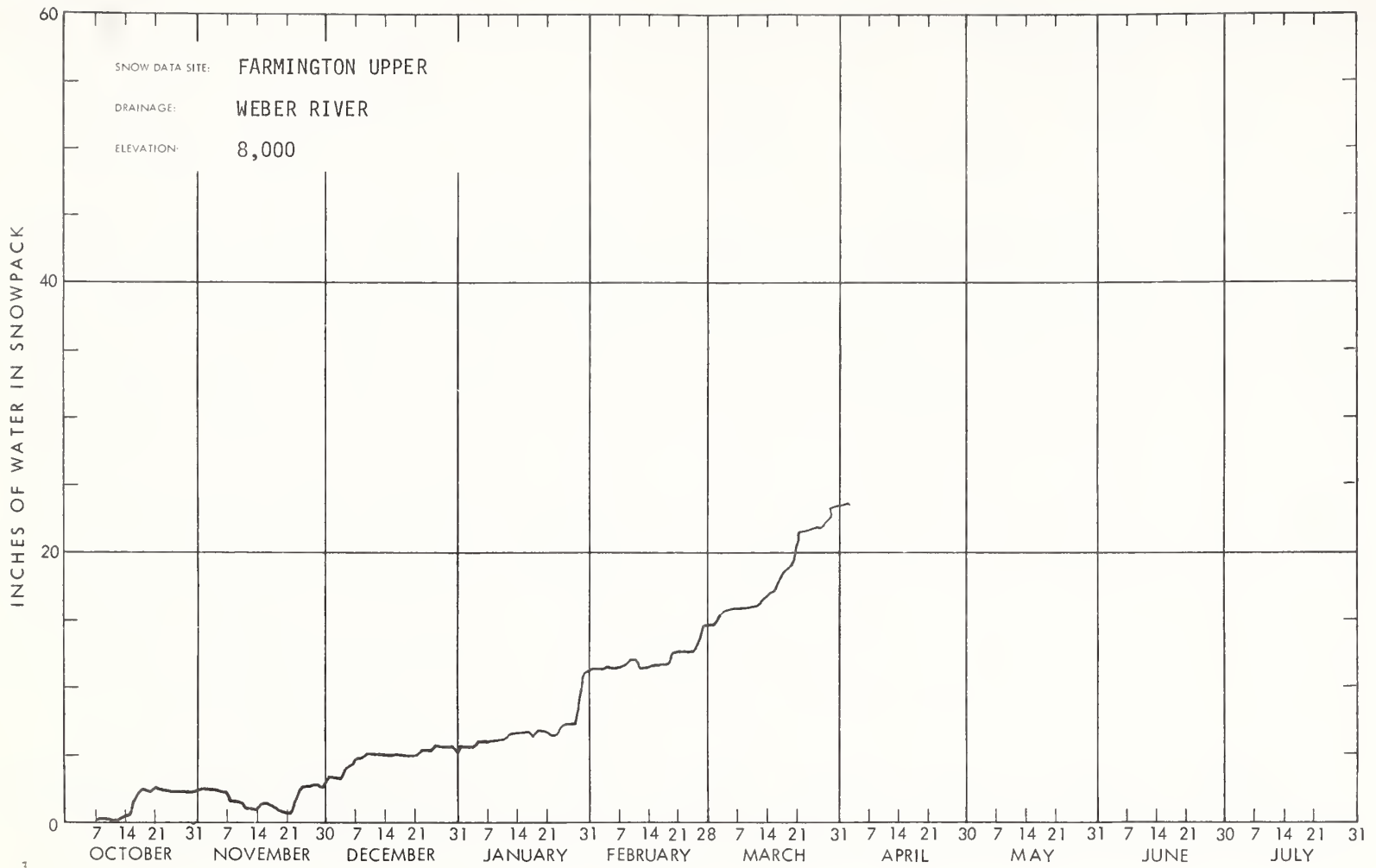
SNOW	THIS YEAR				PAST RECORD		PRECIPITATION (Inches)					
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE			
NAME				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average	
SOUTHEASTERN UTAH DRAINAGES												
Buckboard Flat	3/26	28	7.8	23.3	11.7	3/26	5.72	2.96	12.81	18.14	71	
Camp Jackson	3/26	25	7.7	26.6	10.8	3/26	5.51	2.51	8.93	16.78	53	
LaSal Mountain (lower)	3/31	29	9.4	19.8	8.6							
LaSal Mountain (upper)	3/31	57	16.4	26.2	15.3	3/31	7.98a	3.14	16.50a	14.18	116	
Monticello City Park	3/27	0	0.0	0.1a	--							
ESCALANTE RIVER												
Widtsoe-Escalante #3	3/27	42	10.4	20.3	9.9	3/27	6.13	2.40	12.45	12.07	103	
VIRGIN RIVER												
Kolob-Crystal	3/26	47	13.5	39.0	21.8a	3/26	9.20a	--	17.00a	--		
Long Valley Junction	3/27	1	0.2	14.7	2.7							
Webster Flat	3/27	39	12.4	33.5	15.7	3/27	8.10a	4.00	16.28	19.15	85	
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading												

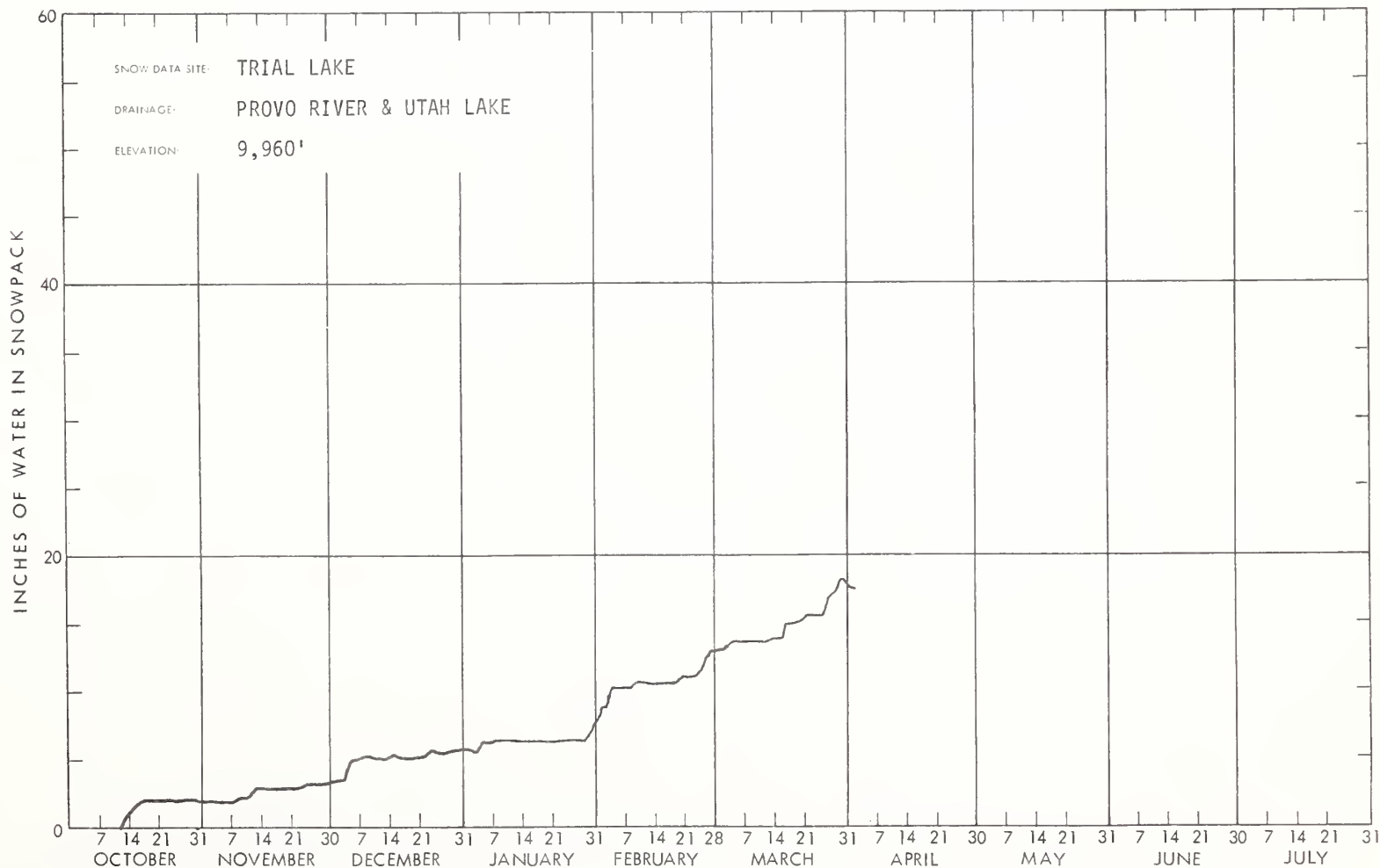
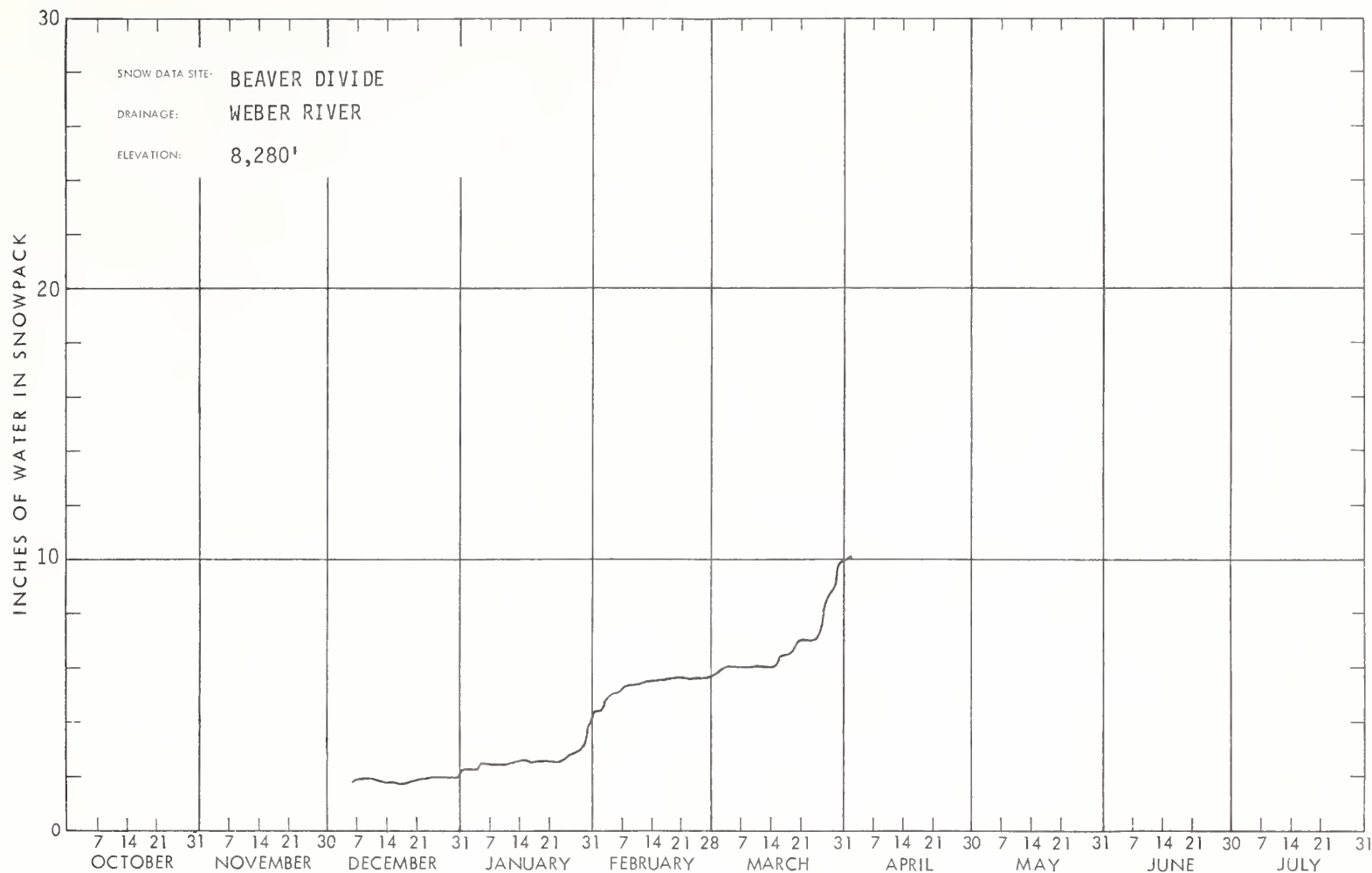


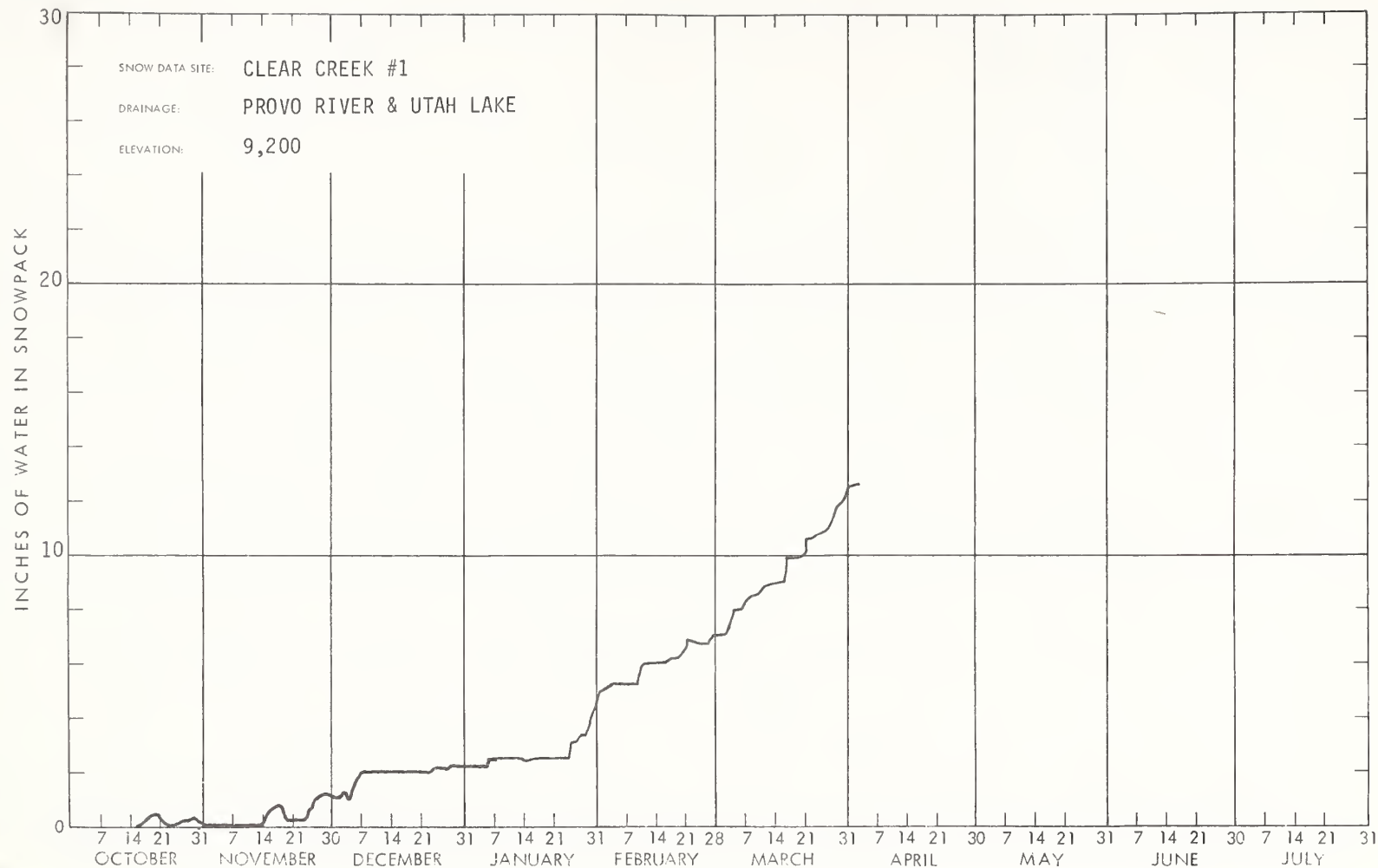




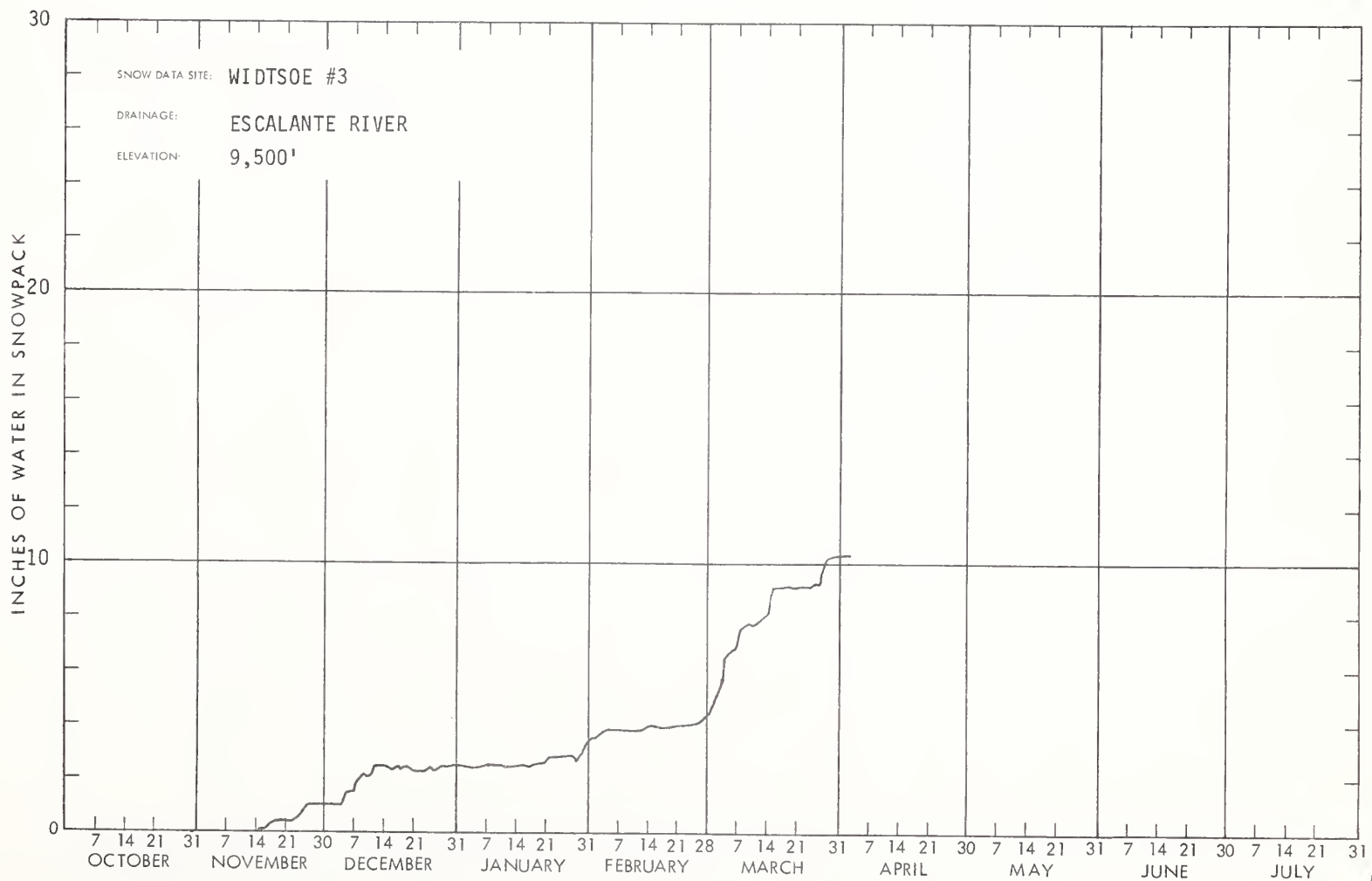
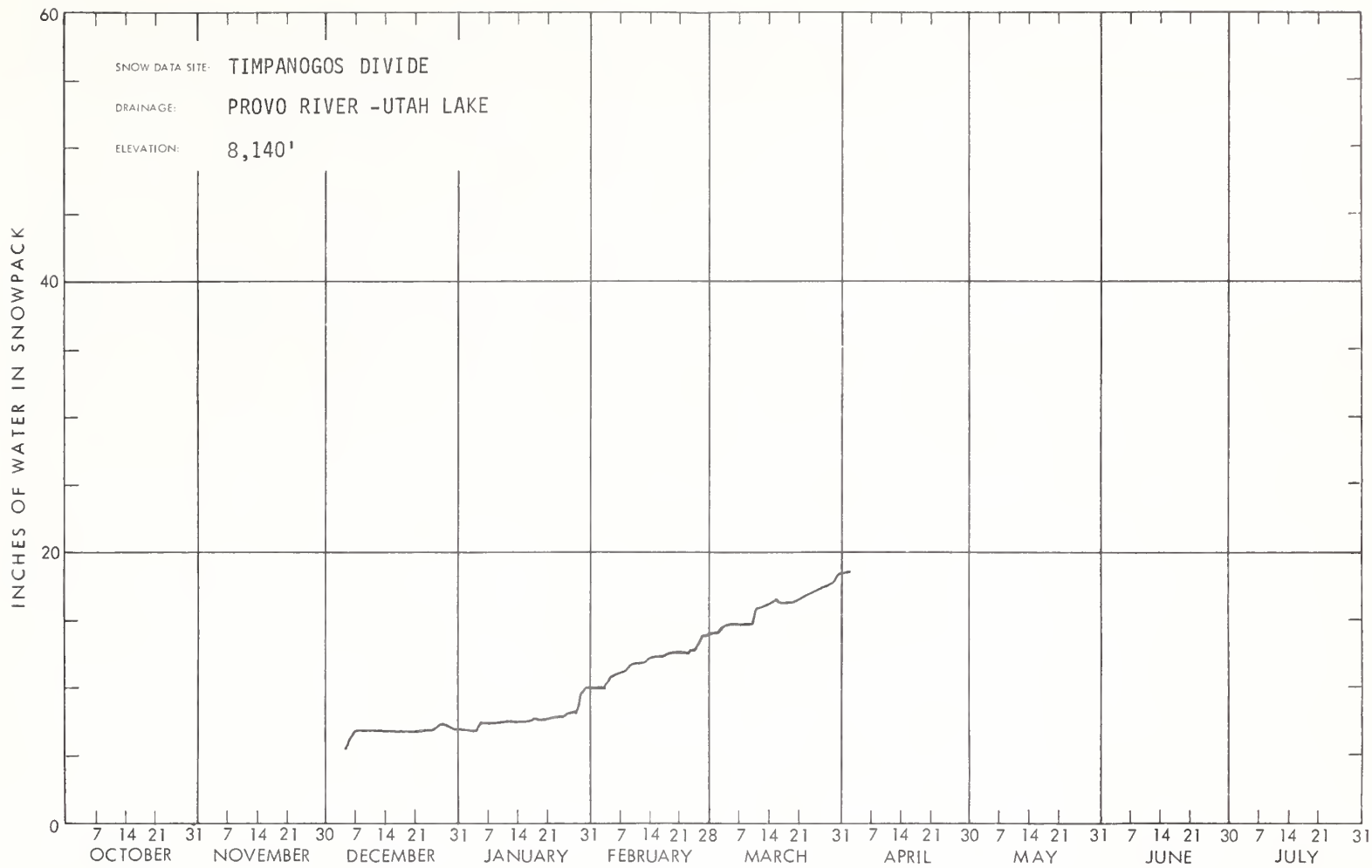


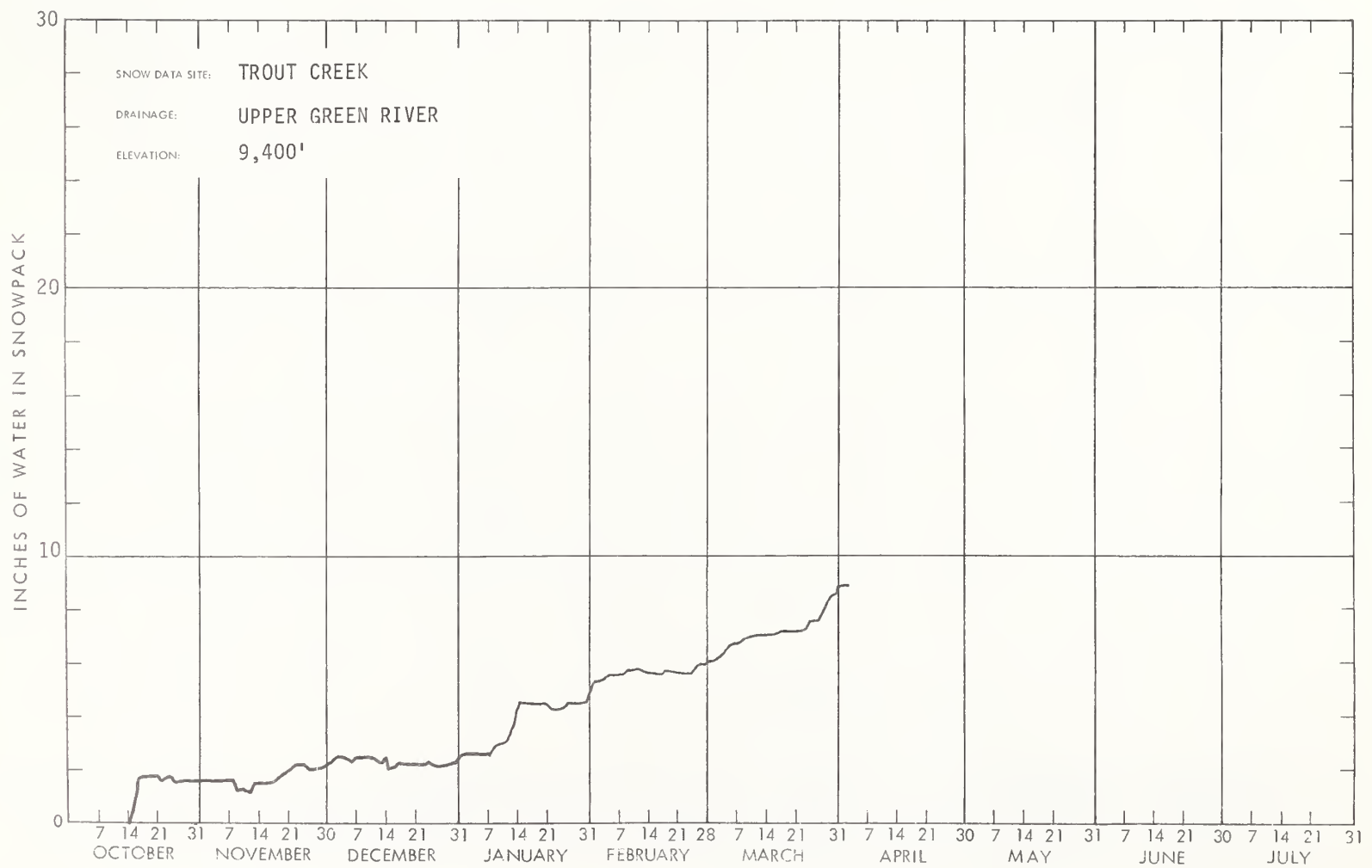
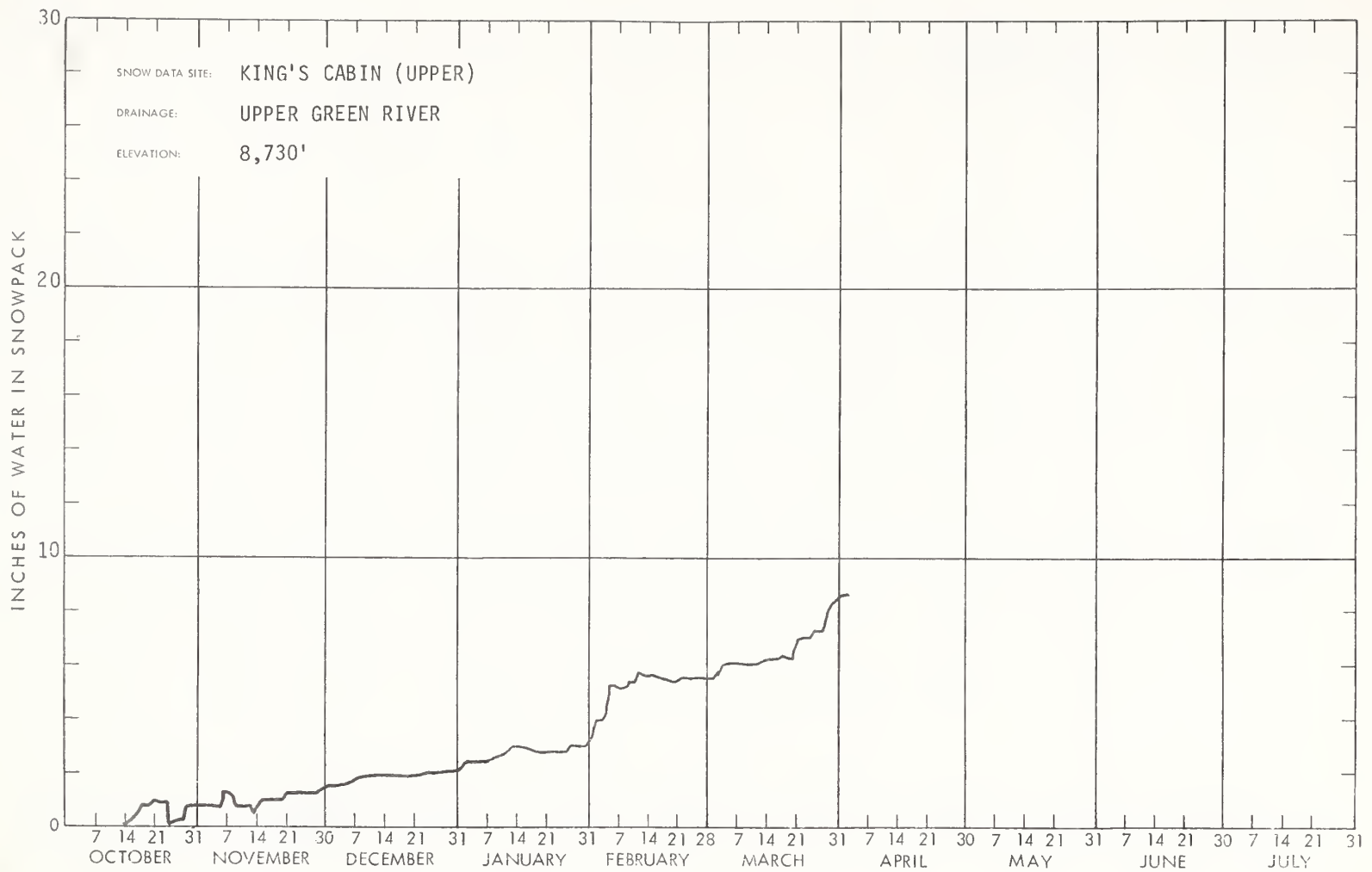


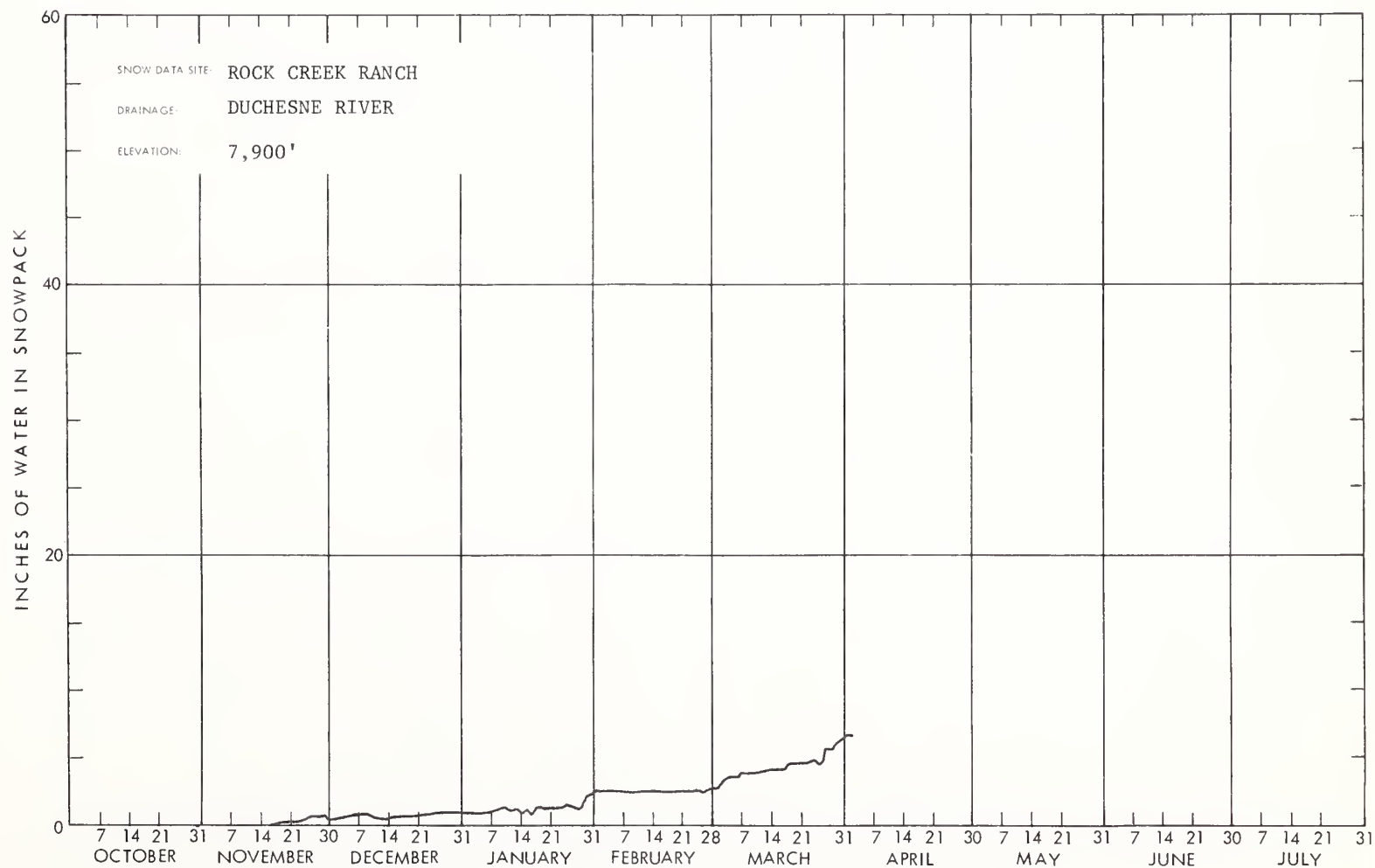
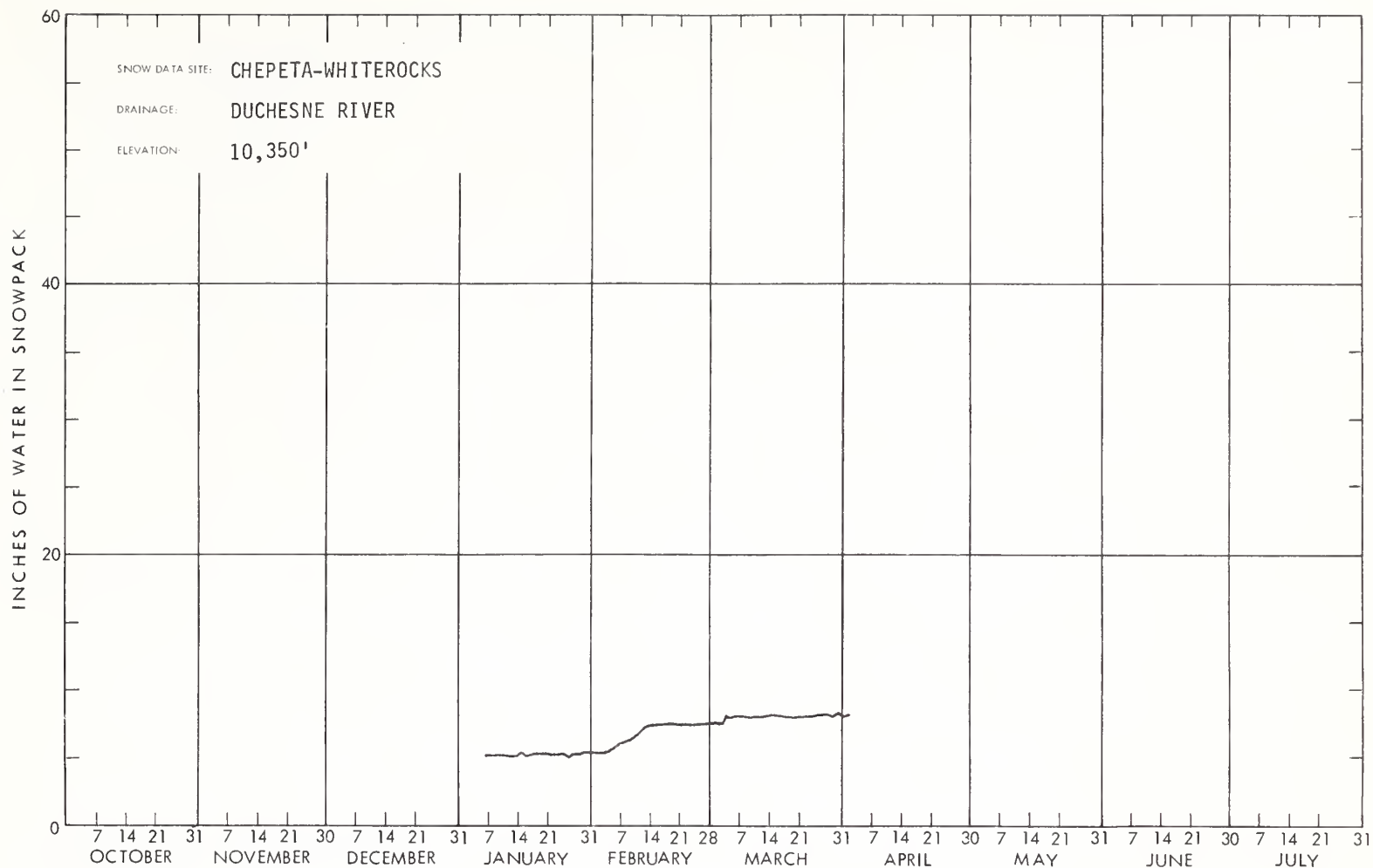


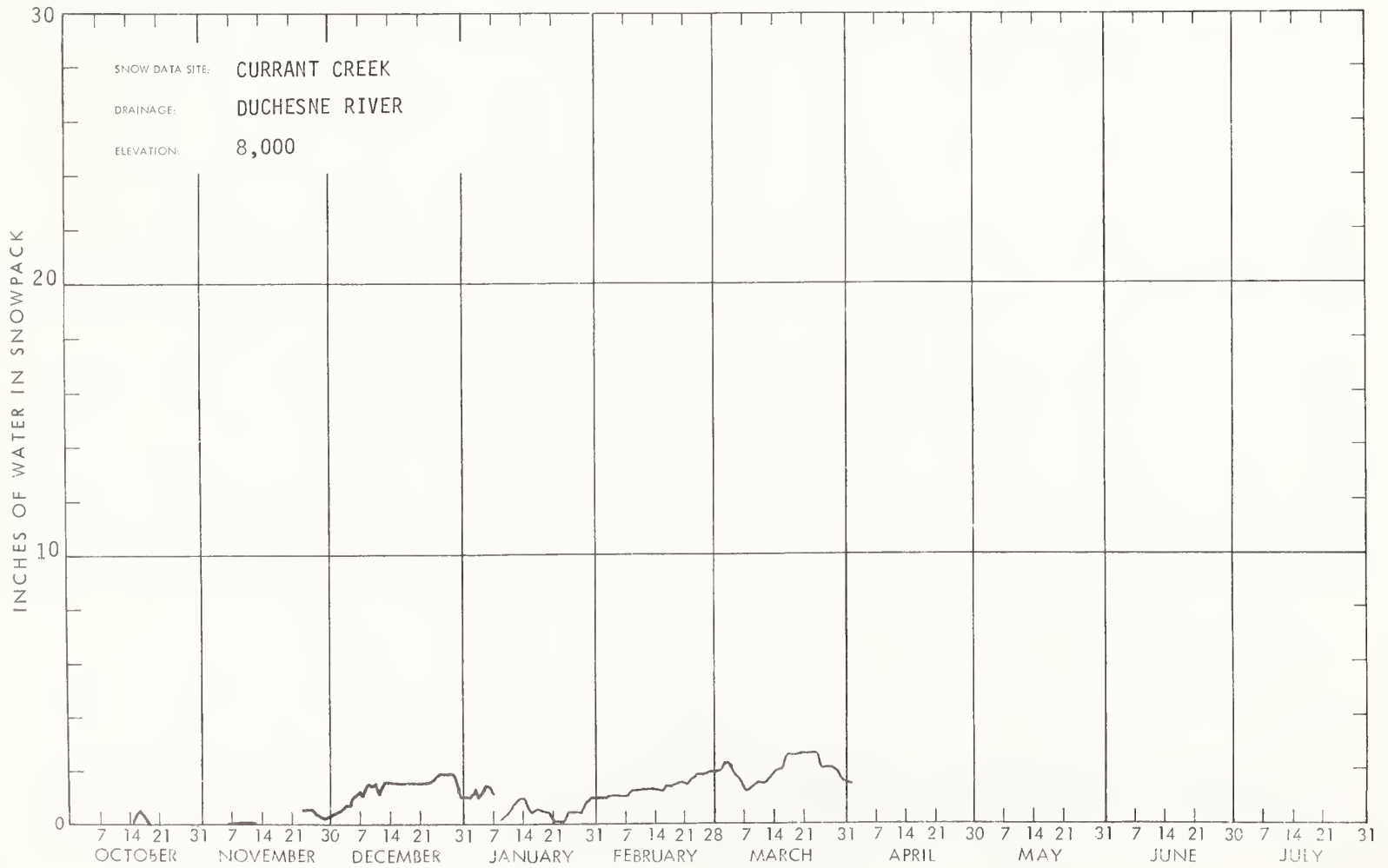
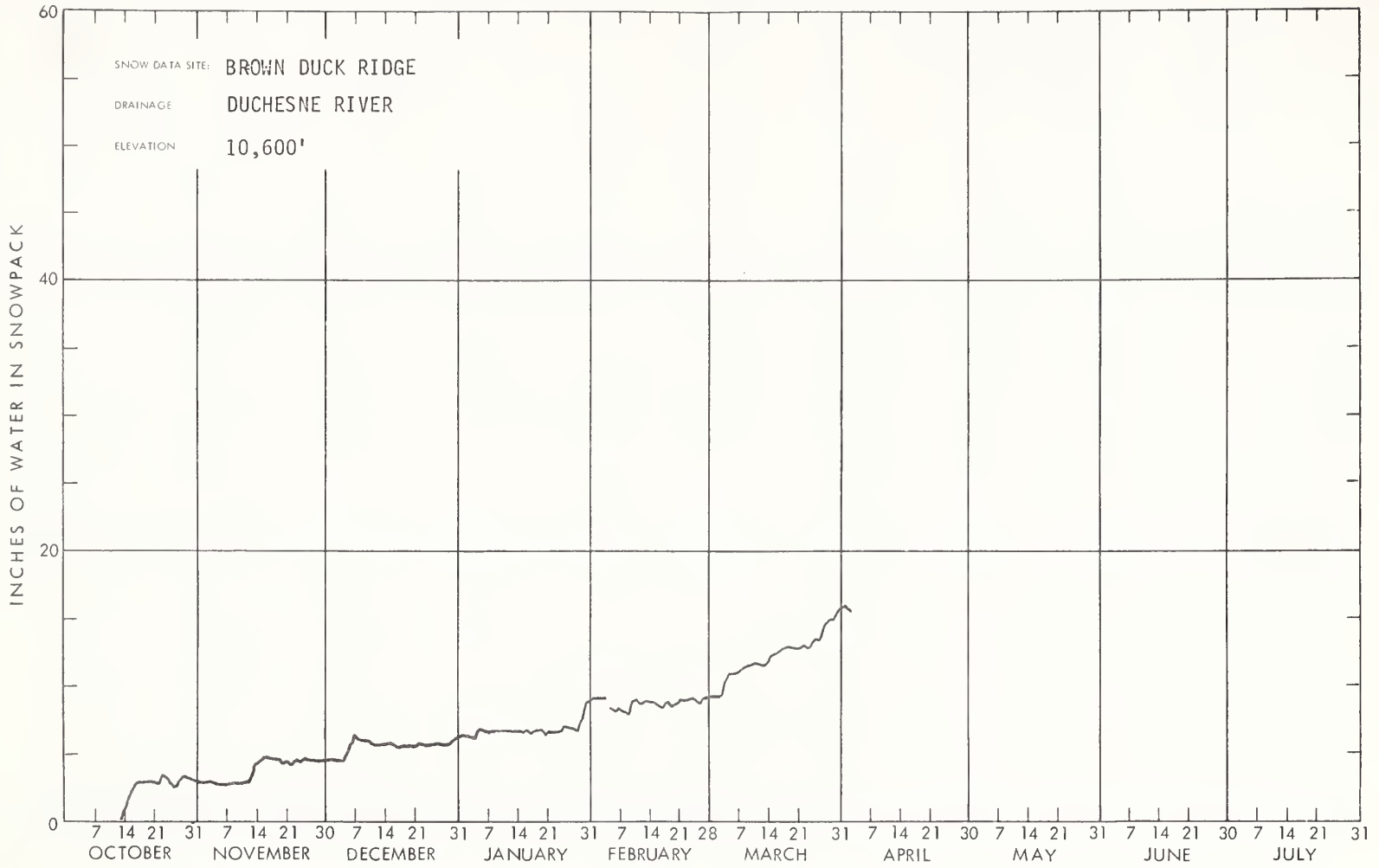




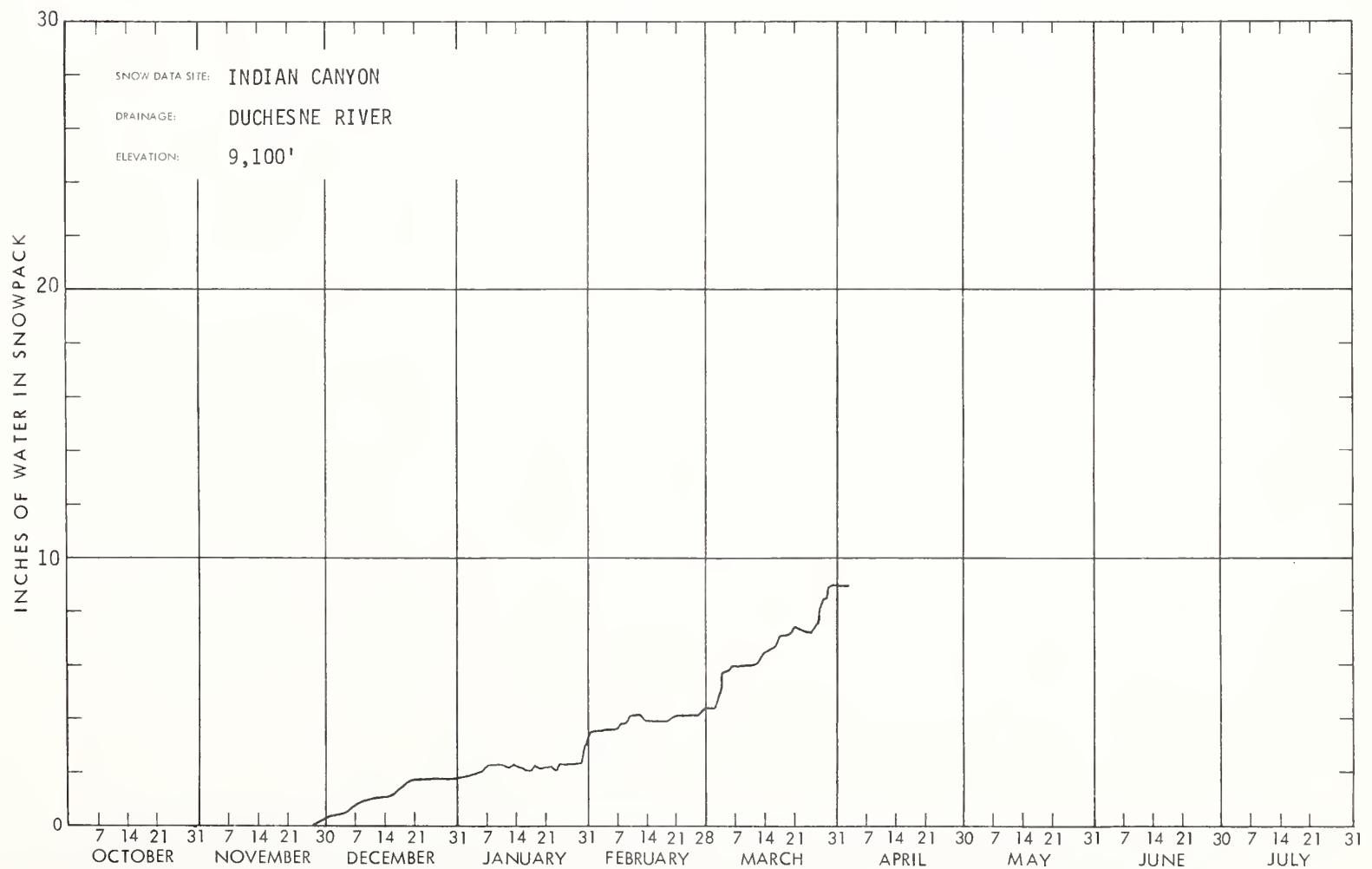
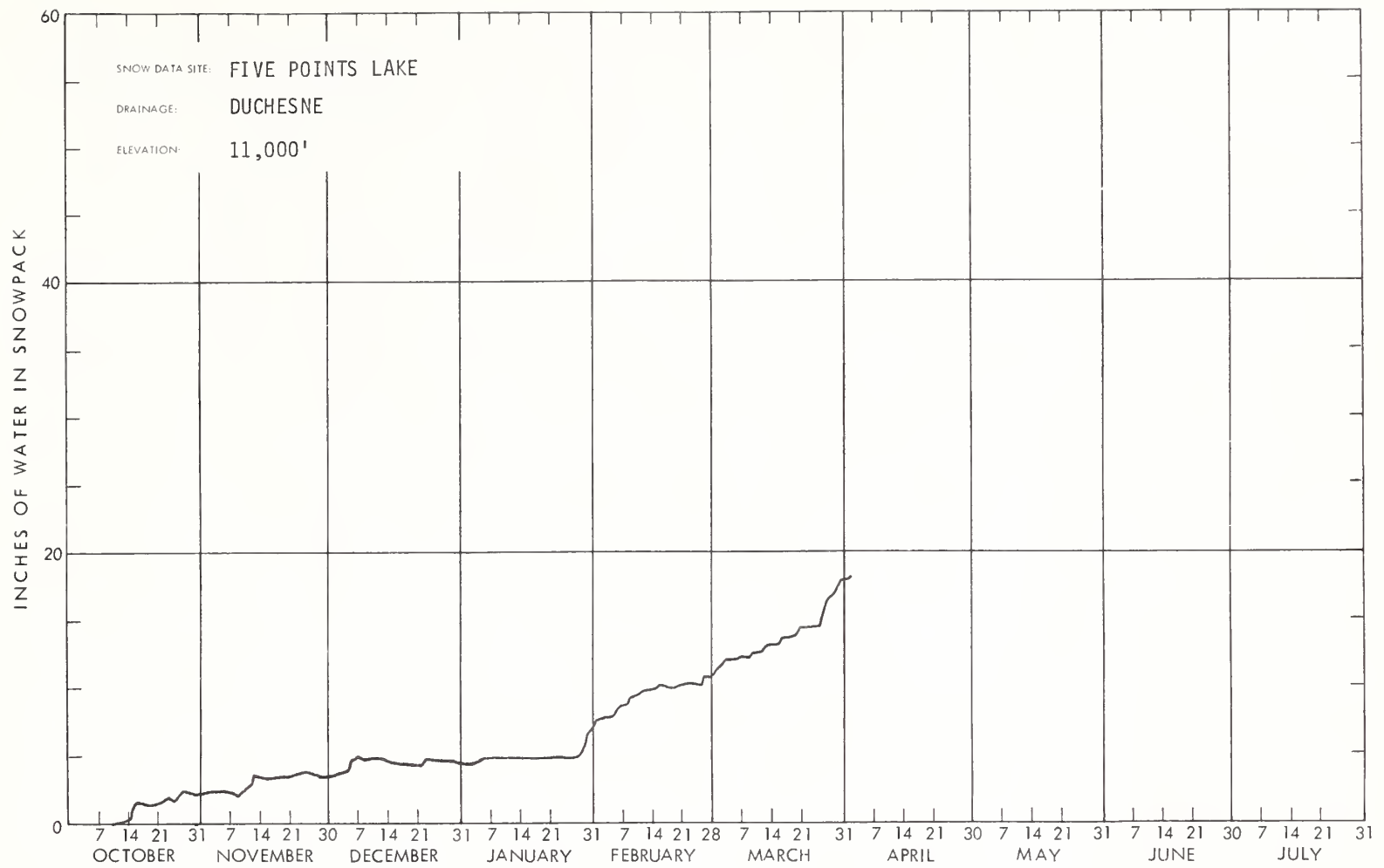




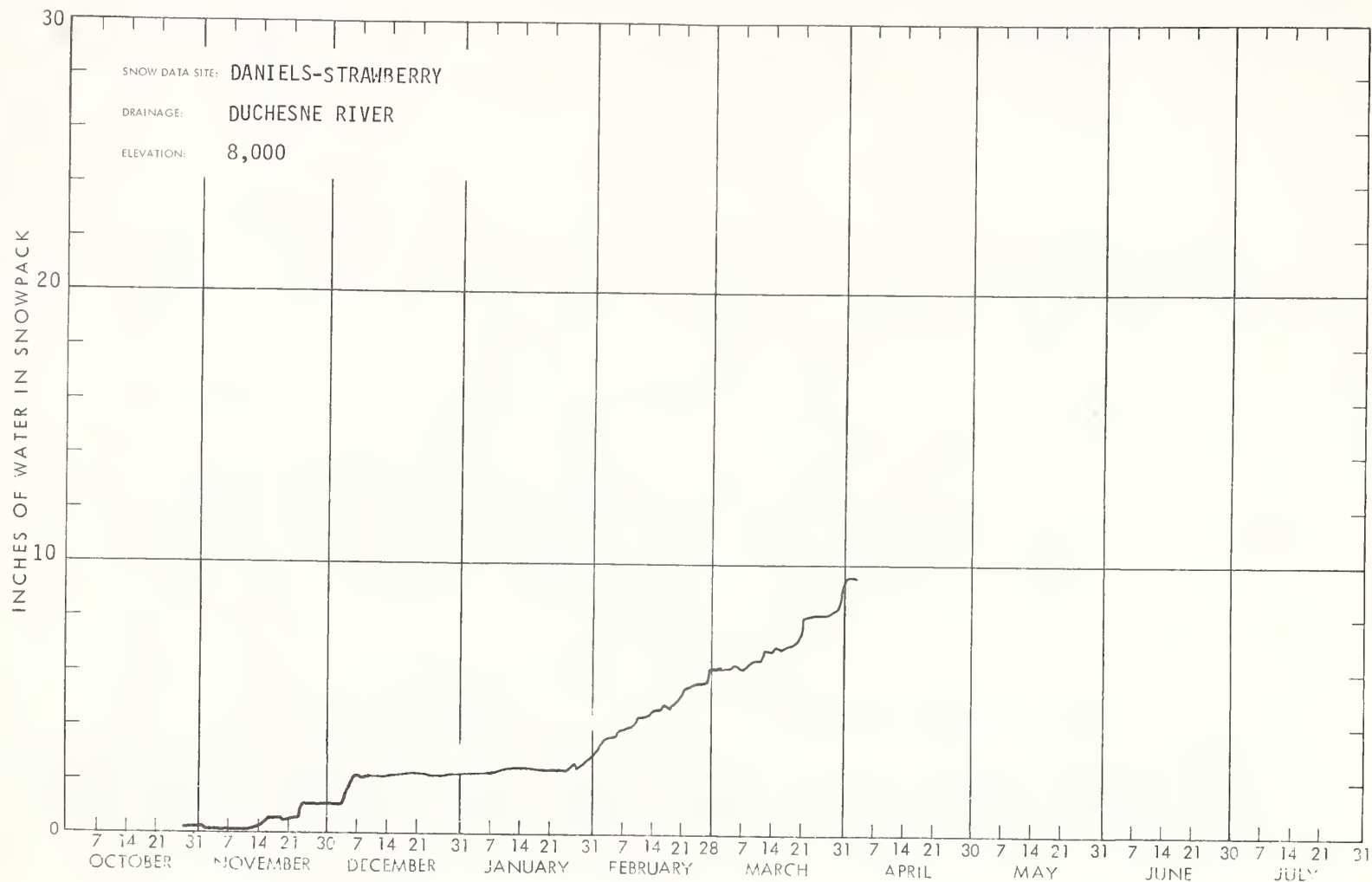




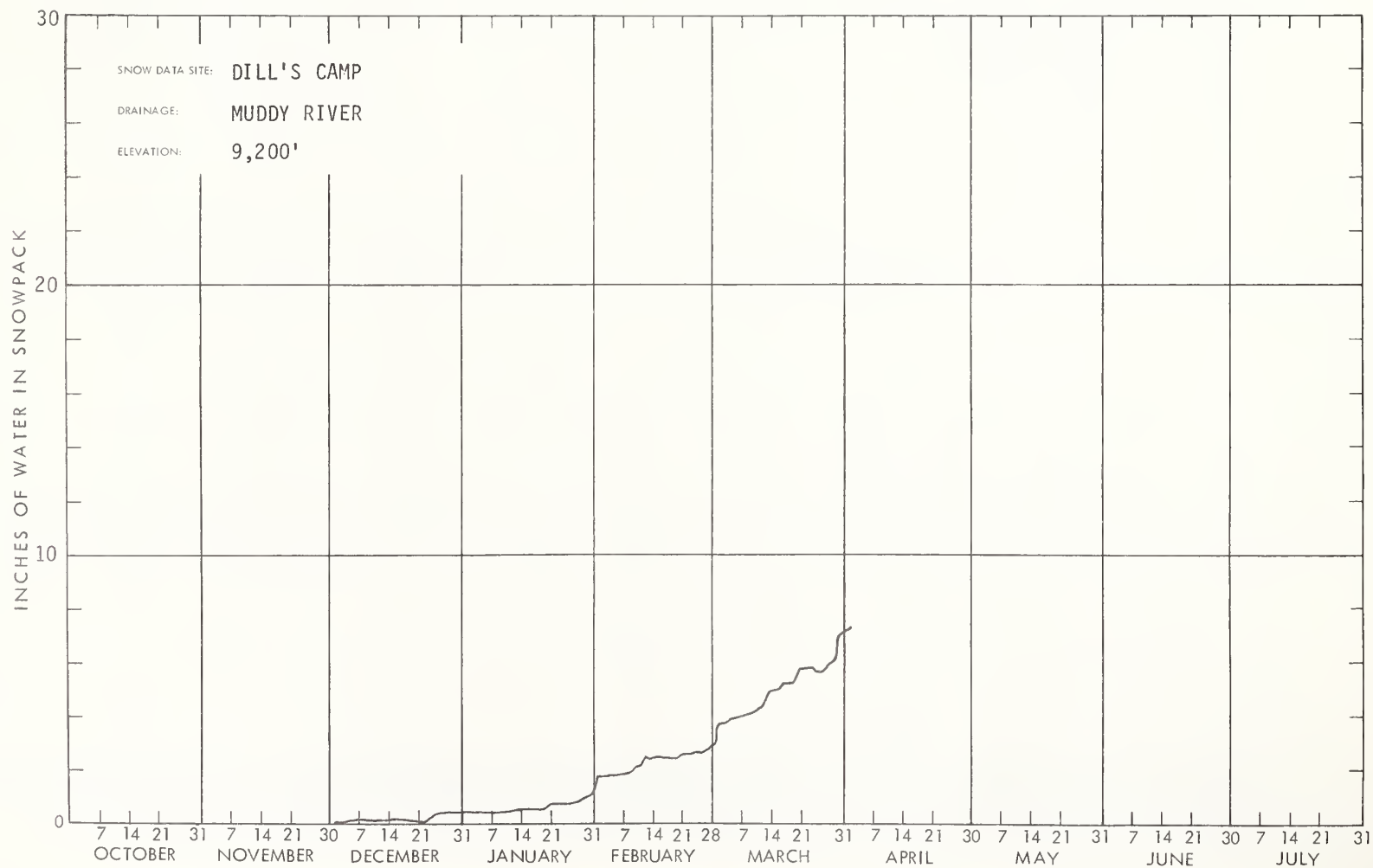


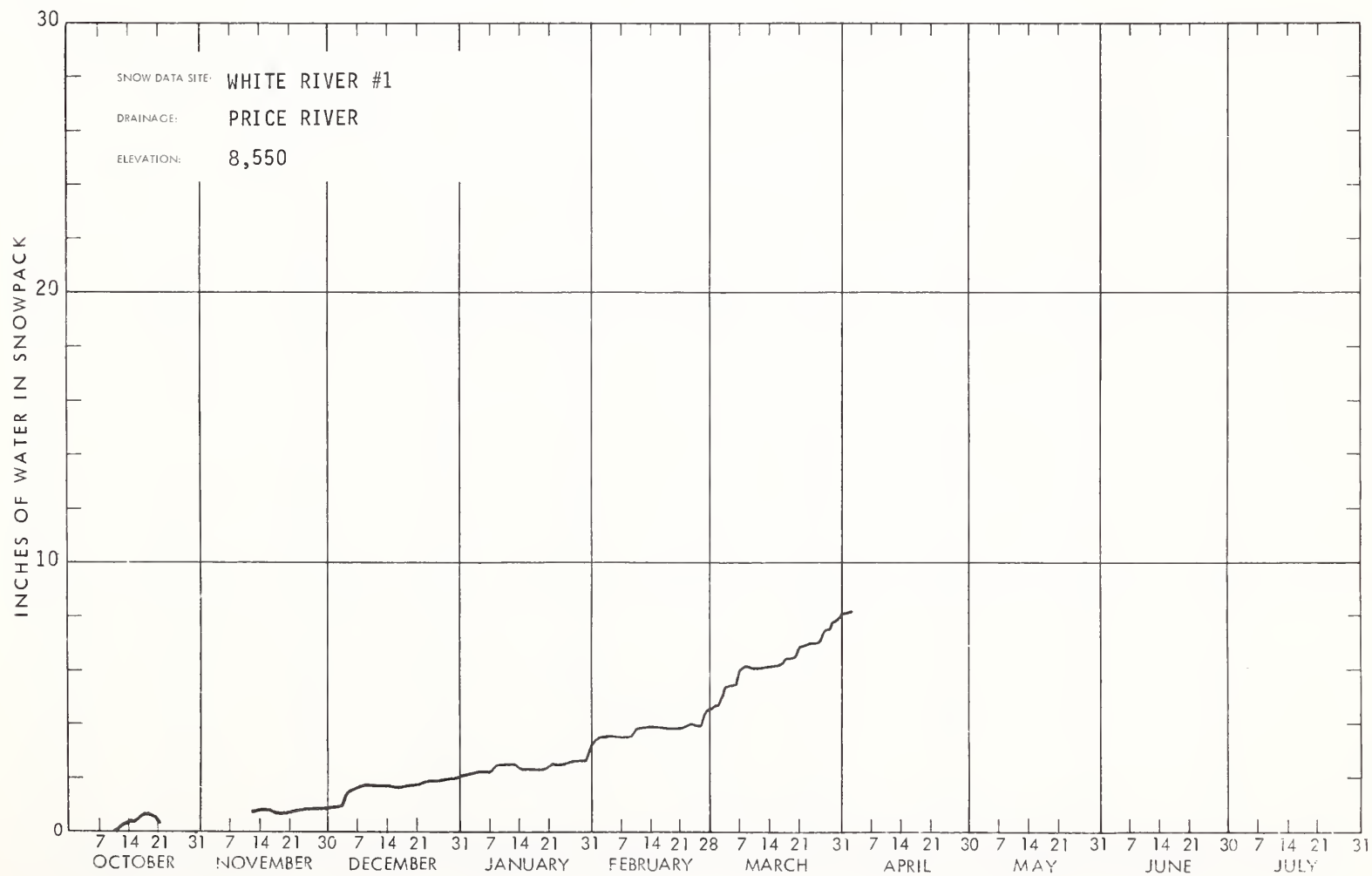
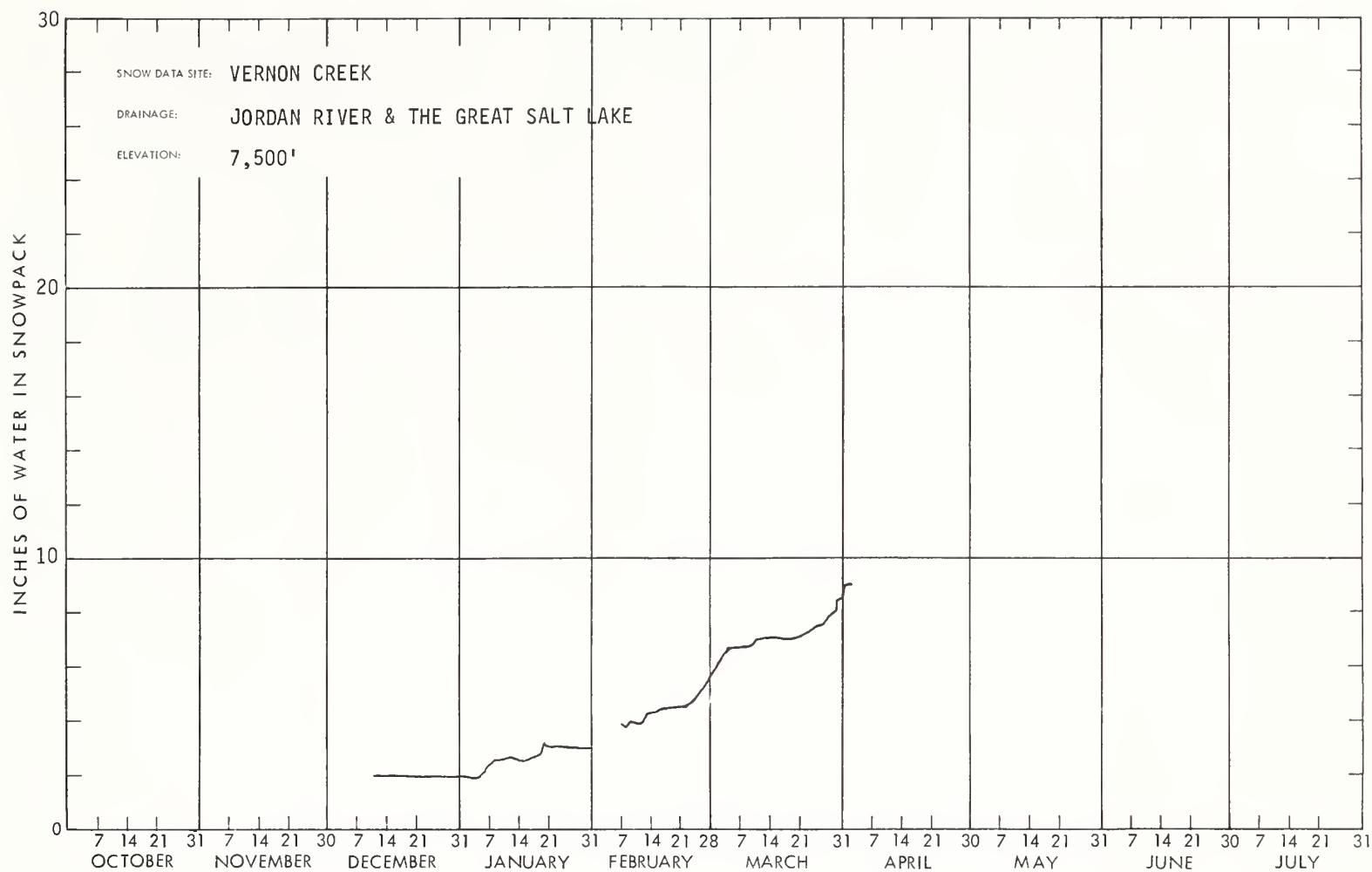


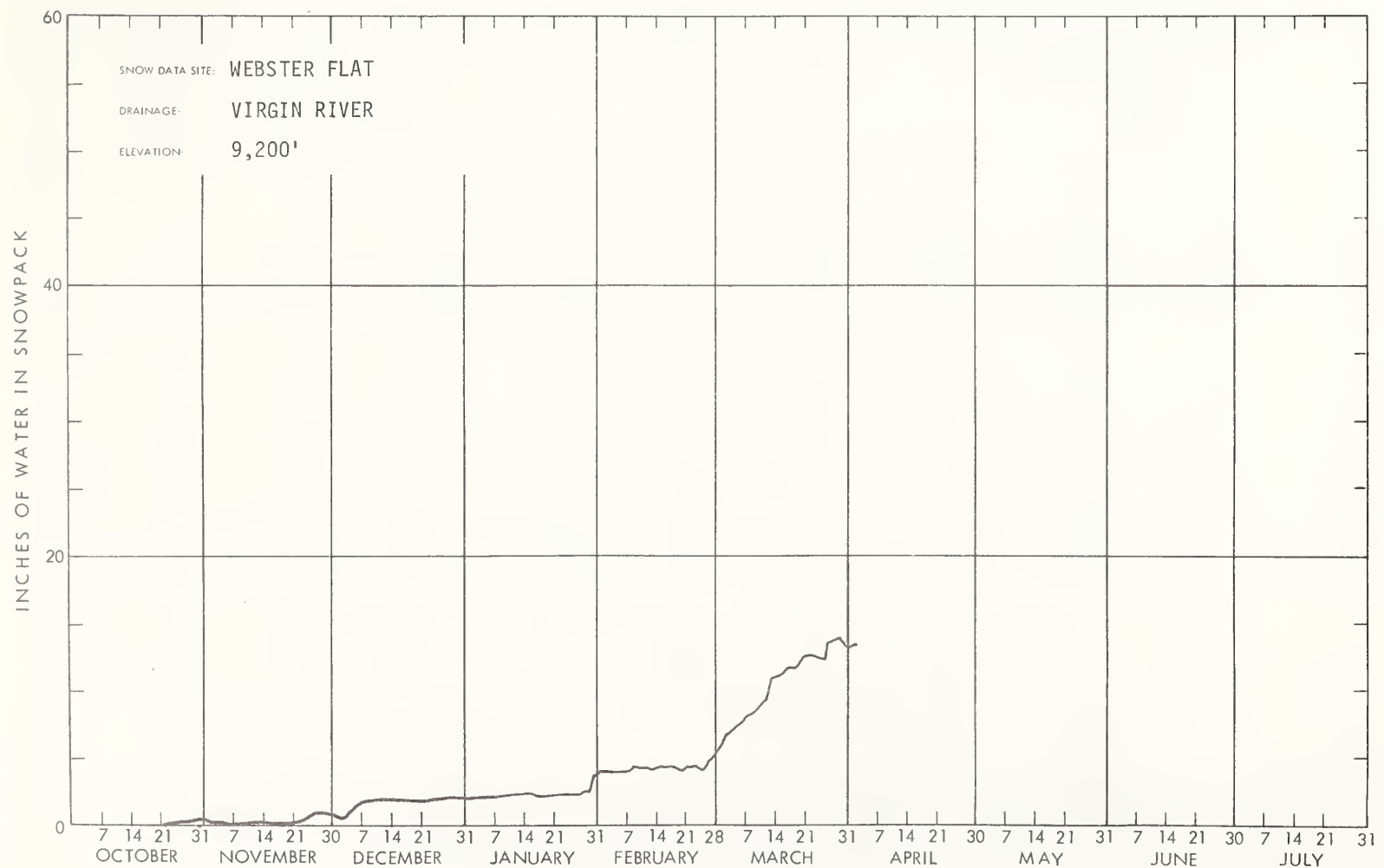
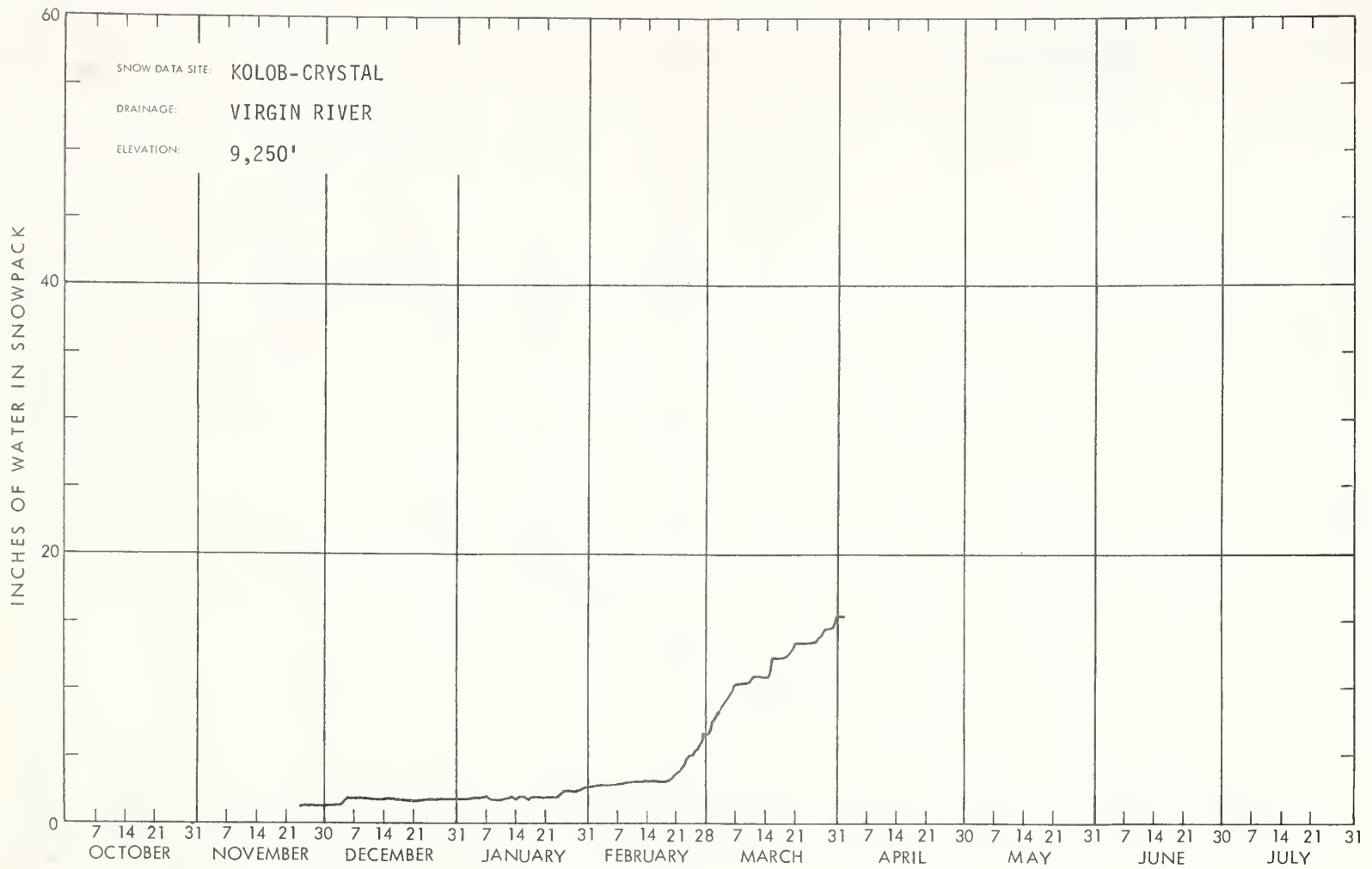
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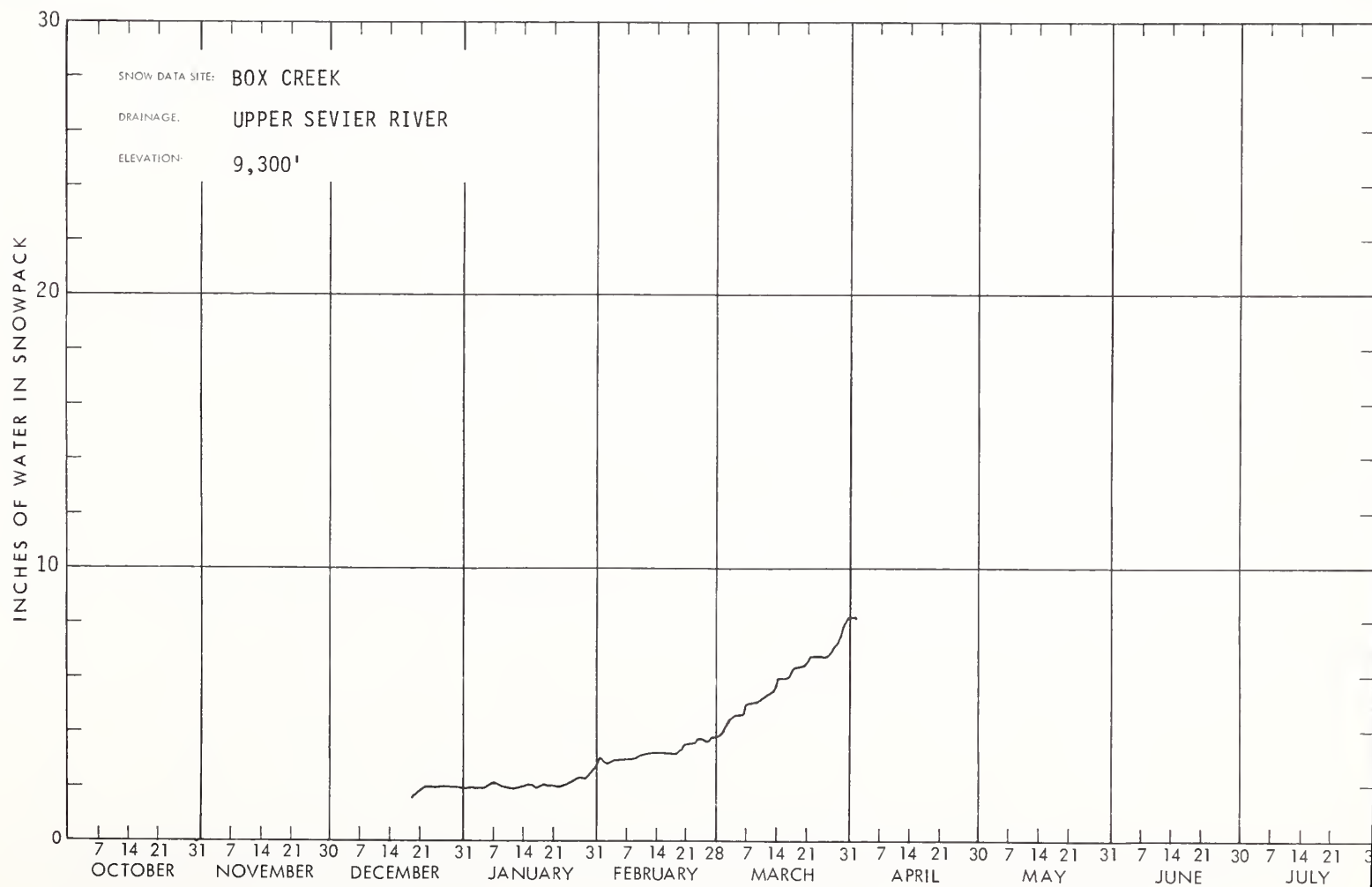
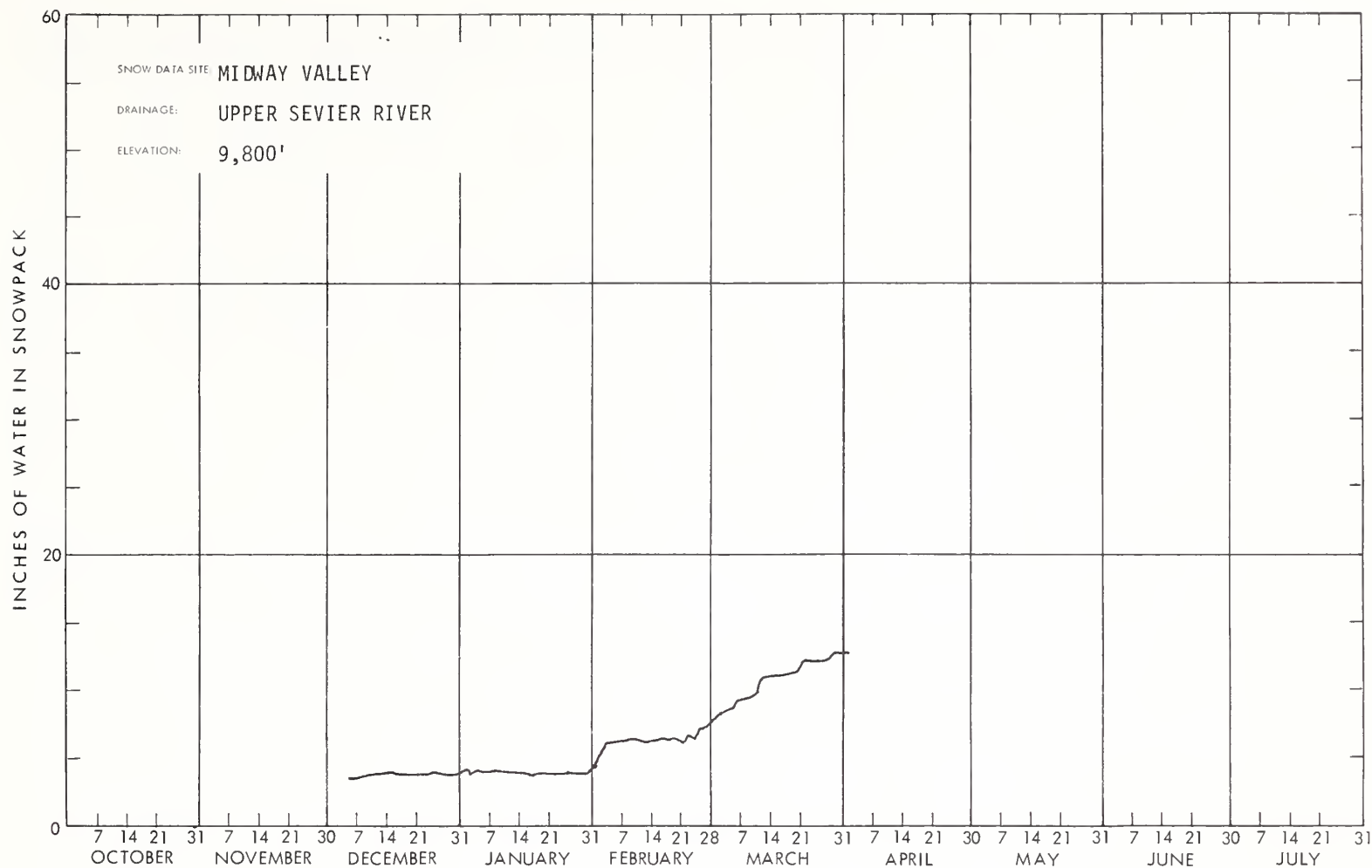
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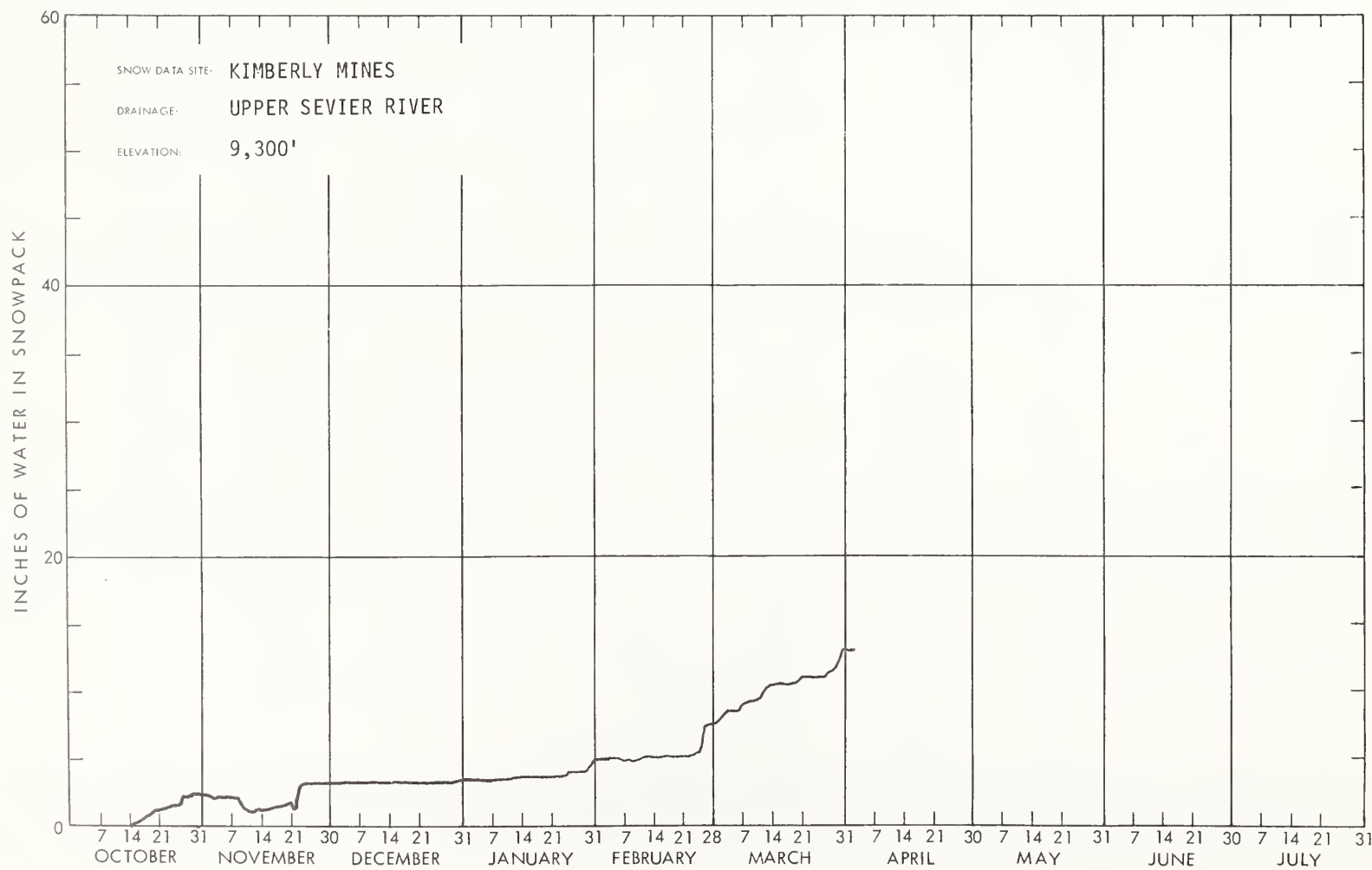
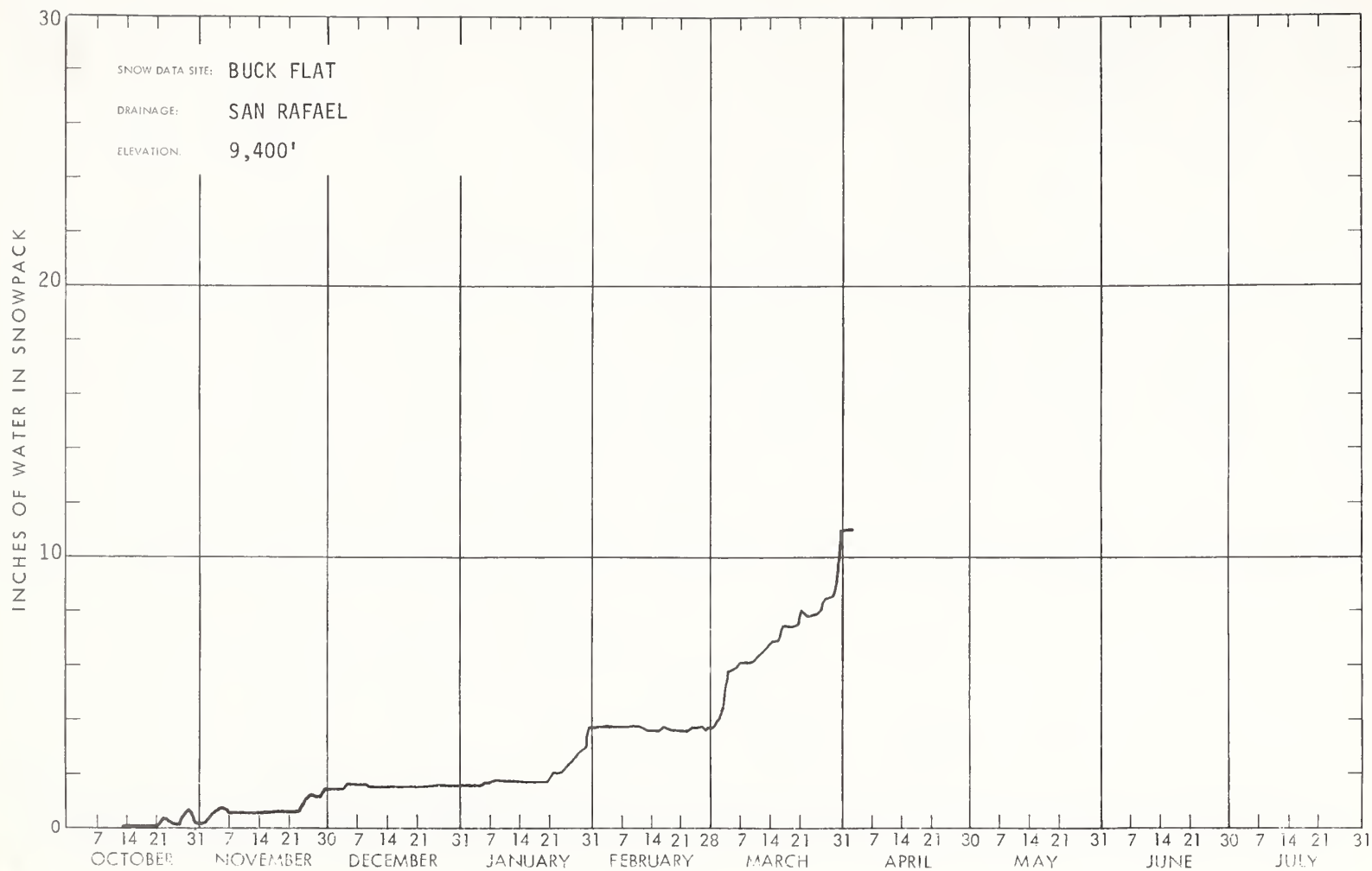


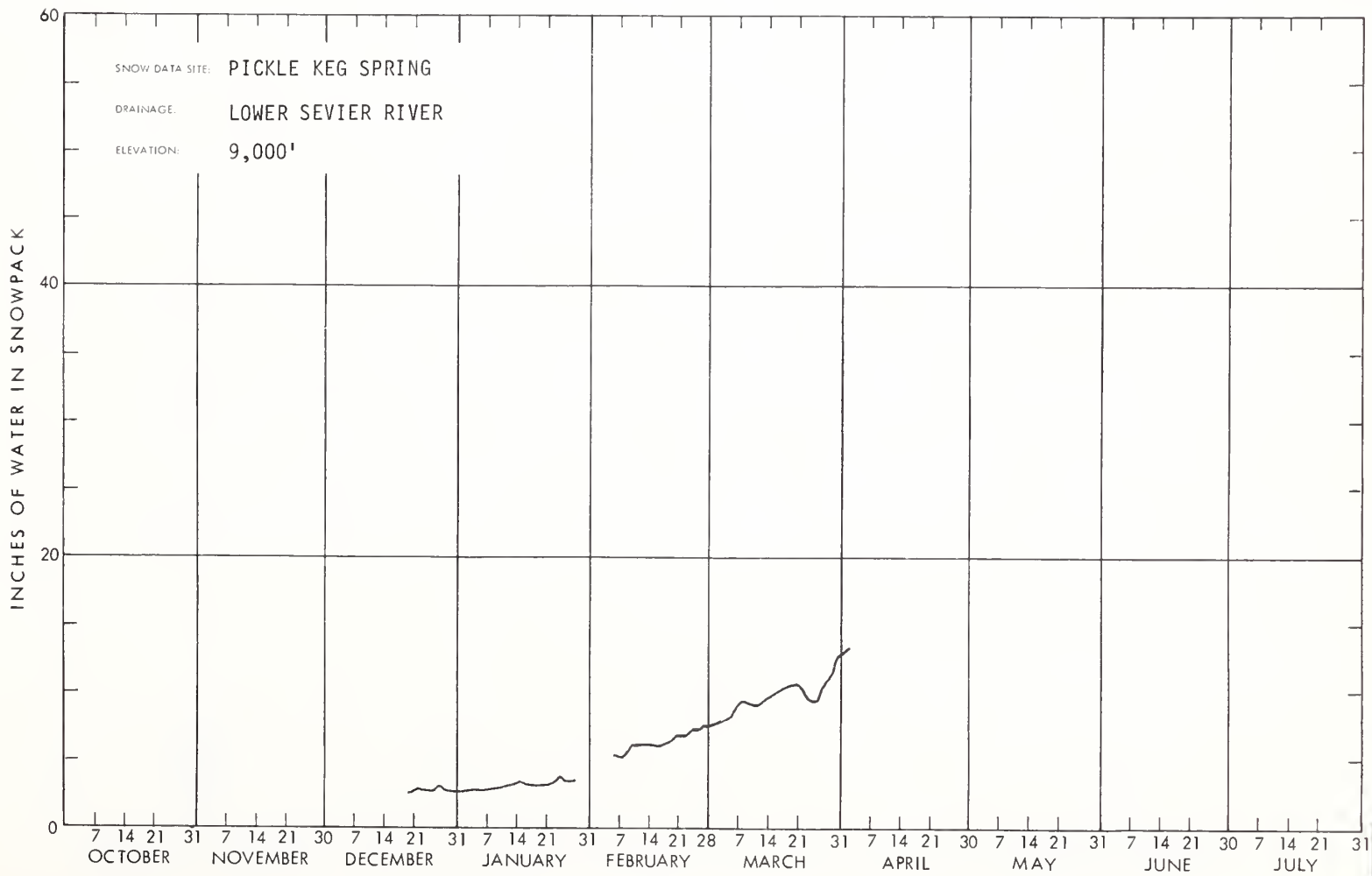
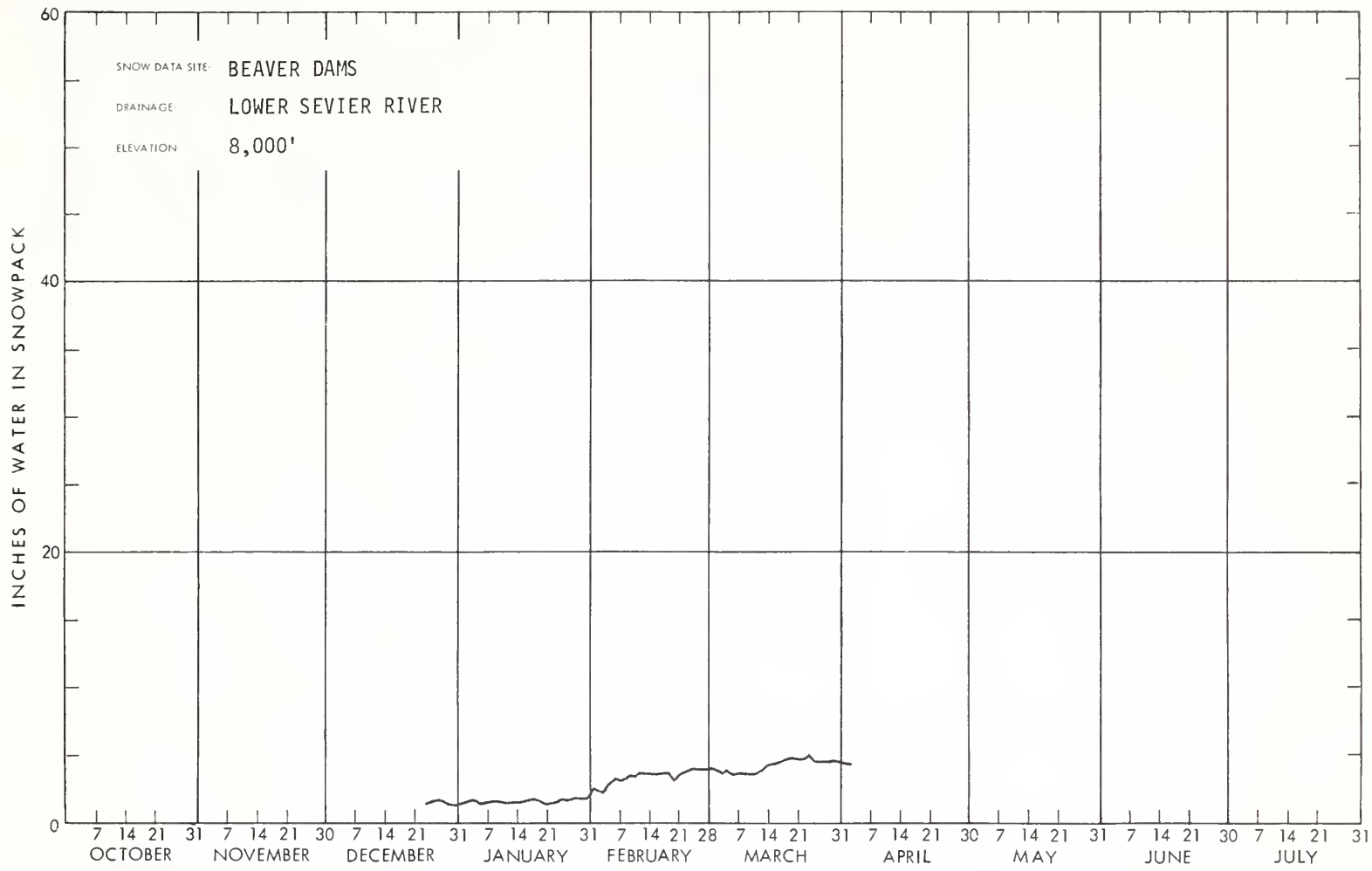


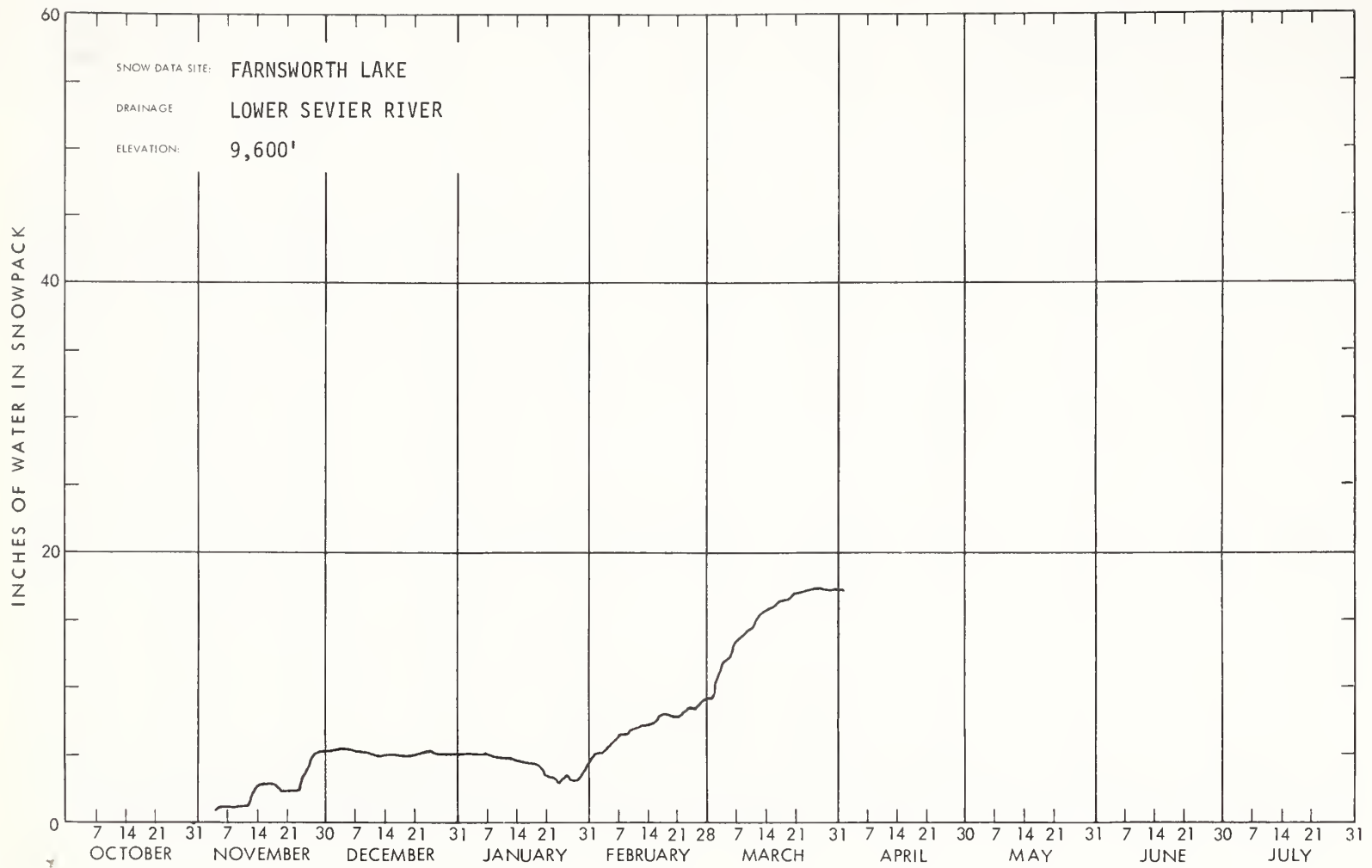




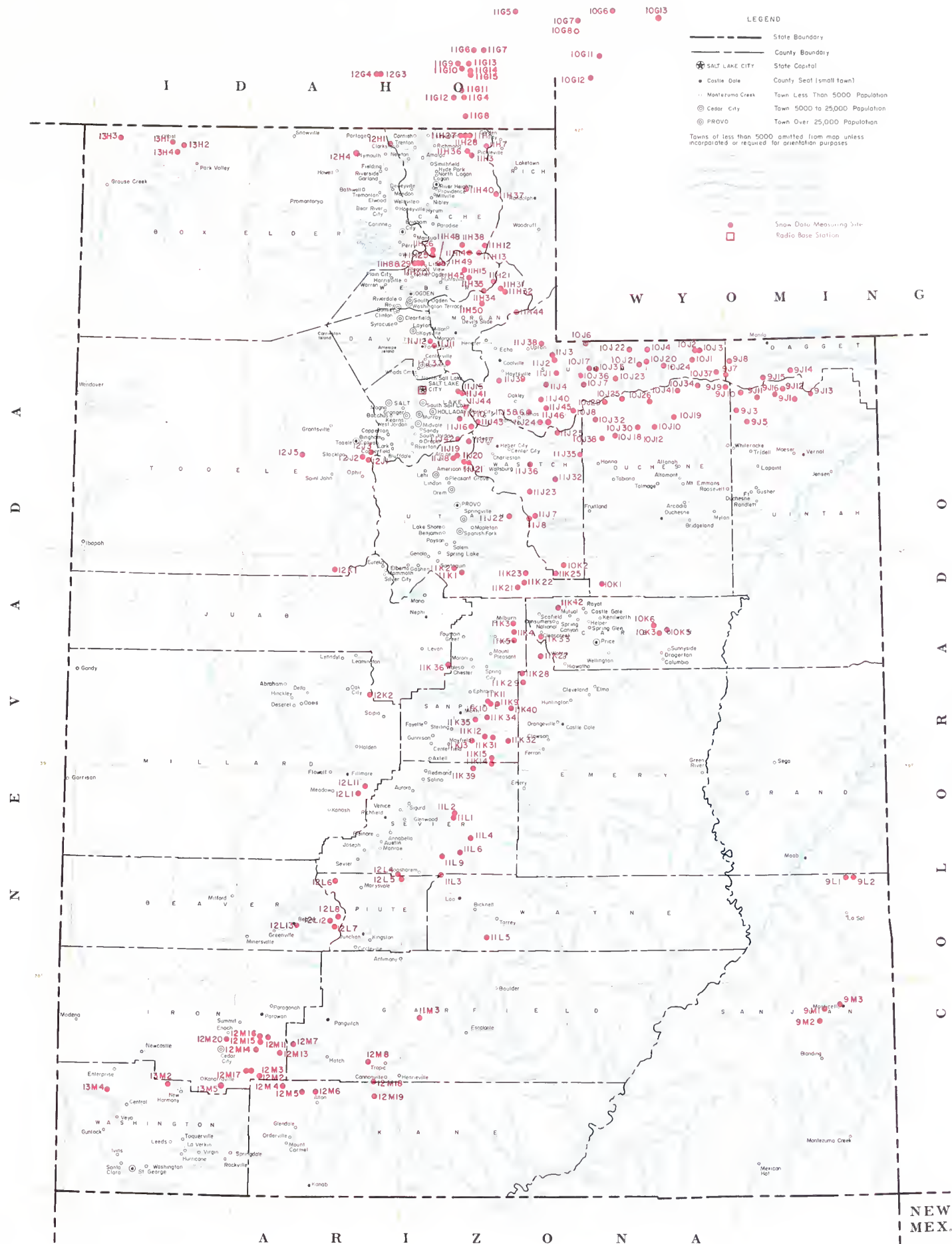












USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adopted for SCS use.

SCALE 1:1,000,000  
ALBERS EQUAL AREA PROJECTION

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## GREAT BASIN DRAINAGE

**LEGEND**  
Numbering System (example)

10J7	Snow Course Only
10J7F	Snow Course and Precipitation Gauge
10J7M	Snow Course and Soil Moisture Station
10J7A	Snow Course and Aerial Marker
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker
10J7MF	Snow Course, Soil Moisture Station and Precipitation Gauge
10J7A	Snow Course, Soil Moisture Station and Aerial Marker Only
10J7F	Snow Course, Precipitation Gauge Only
10J7PS	Snow Course, Precipitation Gauge, and Soil Moisture Station
10J7PST	Snow Course, Precipitation Gauge, and Soil Moisture Station Data Site

## COLORADO RIVER DRAINAGE

# Agencies Cooperating in Utah Snow Surveys

## U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Water and Power Resources Service
  - Geological Survey
  - National Park Service

## STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

- Manti
- Salt Lake City

## ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

## PRIVATE AGENCIES

- Kaiser Steel Corporation



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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*